



BOARD OF TRUSTEES
Regular Meeting.
October 13, 2021
7:00 p.m.

1. CALL MEETING TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ROLL CALL
4. APPROVAL OF AGENDA
5. PRESENTATIONS
 - A. Township Manager FY' 22 Budget Recommendation
6. PUBLIC HEARINGS
 - A. Updated East DDA District Development and Tax Increment Financing plans
 - B. Updated West DDA District Development and Tax Increment Financing plans
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. REPORTS/BOARD COMMENTS
 - A. Current List of Boards and Commissions – Appointments as needed
 - B. Board Member Reports
9. CONSENT AGENDA
 - A. Communications
 - B. Minutes – September 22, 2021 – Regular Meeting & October 6, 2021 – Special Meeting
 - C. Accounts Payable
 - D. Payroll
 - E. Meeting Pay
 - F. Fire Reports
 - G. Jameson Park Phase II – Participation Agreement UT/EDA
 - H. 2021 Manhole Rehabilitation Project Bid Award
 - I. 2021 6” Centrifugal Pump Purchase
 - J. Consider request from Mid-Michigan Aquatic Recreational Authority for startup funding
10. NEW BUSINESS
 - A. Discussion/Action: (Nanney) First Reading for the East DDA Development Plan and Tax Increment Financing Plan Amendatory Ordinance

- B. Discussion/Action: (Nanney) First Reading for the West DDA Development Plan and Tax Increment Financing Plan Amendatory Ordinance
- C. Discussion/Action: (Smith) 2021 Combination Single Engine Dual State Sewer Cleaner/Jetter Purchase

11. 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)

12. MANAGER COMMENTS

13. FINAL BOARD MEMBER COMMENT

14. CLOSED SESSION

- A. Closed session with litigation counsel regarding the cases of James and Jeremy Zalud v Charter Township of Union, now pending in Isabella County Circuit Court Case No. 20-016281-CK, and Concerned Citizens of Union Township v Charter Township of Union, now pending in Isabella County Circuit Court Case No. 20-016292-CZ

15. ADJOURNMENT

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	2/15/2023
3-Vice Chair	Ryan	Buckley	2/15/2022
4-Secretary	Doug	LaBelle II	2/15/2022
5 - Vice Secretary	Stan	Shingles	2/15/2024
6	Tera	Albrecht	2/15/2024
7	Mike	Darin	2/15/2022
8	Alex	Fuller	2/15/2023
9	Jessica	Lapp	2/15/2023
Zoning Board of Appeals Members (5 Members, 2 Alternates) 3 year term			
#	F Name	L Name	Expiration Date
1- PC Rep	Ryan	Buckley	2/15/2022
2 - Chair	Andy	Theisen	12/31/2022
3 - Vice Chair	Liz	Presnell	12/31/2022
4 - Secretary	Judy	Lannen	12/31/2022
5 -	vacant seat		12/31/2022
Alt. #1	Brandon	LaBelle	12/31/2022
Alt. #2	vacant seat		2/15/2021
Board of Review (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Doug	LaBelle II	12/31/2022
2	Sarvjit	Chowdhary	12/31/2022
3	Bryan	Neyer	12/31/2022
Alt #1	Randy	Golden	12/31/2022
Construction Board of Appeals (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Colin	Herron	12/31/2021
2	Richard	Jakubiec	12/31/2021
3	Andy	Theisen	12/31/2021
Hannah's Bark Park Advisory Board (2 Members from Township) 2 year term			
1	Mark	Stuhldreher	12/31/2022
2	John	Dinse	12/31/2021
Chippewa River District Library Board 4 year term			
1	Ruth	Helwig	12/31/2023
2	Lynn	Laskowsky	12/31/2021



Board Expiration Dates

EDA Board Members (11 Members) 4 year term			
#	F Name	L Name	Expiration Date
1-BOT Representative	Bryan	Mielke	11/2024
2	Thomas	Kequom	4/14/2023
3	James	Zalud	4/14/2023
4	Richard	Barz	2/13/2025
5	Robert	Bacon	1/13/2023
6	Marty	Figg	6/22/2022
7	Sarvjit	Chowdhary	1/20/2022
8	Cheryl	Hunter	6/22/2023
9	Jeff	Sweet	2/13/2025
10	vacant seat		2/13/2021
11	David	Coyne	3/26/2022
Mid Michigan Area Cable Consortium (2 Members)			
#	F Name	L Name	Expiration Date
1	Kim	Smith	12/31/2022
2	vacant seat		
Cultural and Recreational Commission (1 seat from Township) 3 year term			
#	F Name	L Name	Expiration Date
1	Robert	Sommerville	12/31/2022
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	Mike	Darin	8/15/2022
3 - Township Resident	Jeff	Siler	8/15/2021
4 - Township Resident	Jeremy	MacDonald	10/17/2022
5 - Member at large	Phil	Hertzler	8/15/2021
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	12/31/2022
1- Mt. Pleasant Schools	Lisa	Diaz	12/31/2021

2021 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 September 22, 2021, at 7:00 p.m. at the Union Township Hall.

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

Roll Call

Present: Supervisor Mielke, Clerk Cody, Treasurer Rice, Trustee Bills, Trustee Brown, Trustee Hauck, and Trustee Thering

Approval of Agenda

Cody moved **Bills** supported to approve the agenda as presented. **Vote: Ayes: 7 Nays: 0.**
Motion carried.

Presentations

N/A

Public Hearings

A. Carriage Hill Estates #1 & #2 Subdivision Paving Special Assessment District

Open: 7:03 p.m.

No public comments were offered.

Closed: 7:04 p.m.

Public Comment

Open: 7:05 p.m.

No comments were offered

Closed: 7:05 p.m.

Reports/Board Comments

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

B. Board Member Reports

Brown – Gave updates on the City Commission meeting

Bills – Gave updates on the 2% Round Table meeting and the Isabella County Commissioners.

Thering – Gave updates on the Planning Commission.

Rice – Summer taxes are behind us.

Hauck – Gave updates on the Council of Governments and Road Commission.

Consent Agenda

- Communications
- Minutes – September 8, 2021 – Regular Meeting
- Accounts Payable
- Payroll
- Meeting Pay
- Fire Reports

Hauck moved Bills supported to approve the consent agenda as presented. **Vote: Ayes: 7 Nays: 0. Motion carried.**

New Business

A. Discussion/Action: (Stuhldreher) Carriage Hill Estates #1 & #2 Subdivision Paving Special Assessment District Resolution #3

Brown moved Bills supported the adoption of Carriage Hill Estates #1 & #2 Subdivision Paving Special Assessment District Resolution #3 for the establishment of a Paving Special Assessment District. **Roll Call Vote: Ayes: Mielke, Cody, Rice, Bills, Brown, Hauck, and Thering. Nays: 0. Motion carried.**

B. Discussion/Action: (Stuhldreher) Policy Governance 2.10 Communication and Support to the Board

Discussion by the Board

C. Discussion/Action: (Stuhldreher) Policy Governance 4.0 Global Governance-Management Connection

Discussion by the Board

D. Discussion/Action: (Stuhldreher) Policy Governance 4.1 Unity of Control

Discussion by the Board

EXTENDED PUBLIC COMMENT: RESTRICTED TO 5 MINUTES REGARDING ANY ISSUE

Open 8:09 p.m.

Michael Heitman, 2812 S. Lincoln Rd. Unit 6, expressed desire to add a new voting precinct.

John Dinse, 1206 E. High St., addressed concerns with precinct locations.

Closed: 8:18 p.m.

MANAGER COMMENTS

Annual Clean Up Day is Saturday October 2, 2021.

FINAL BOARD MEMBER COMMENTS

Hauck – Commented that Union Township meetings are open for all residents to attend and are welcome to run for Board positions.

Cody – Jameson Hall is compliant with the State. Union Township is working to find a new voting precinct location.

Rice – Commented on conversations her and Clerk Cody have had regarding voting precincts

Thering – Would like to see a paper shredding station at a future Union Township Clean Up Day.

Bills – Spoke with registered voters that are interested in off-road bike paths.

Brown – Wasn't aware of the voting precinct location issues. Commented that he will personally look into it.

Mielke – Commented that the voting precinct issue has been on the Township Officials radar for a long time and is in support of making it a priority. Also commented on masks and virtual meetings.

ADJOURNMENT

Cody moved **Rice** supported to adjourn the meeting at 8:50 p.m. **Vote: Ayes: 7 Nays: 0.**
Motion carried.

APPROVED BY:

Lisa Cody, Clerk

Bryan Mielke, Supervisor

(Recorded by Tera Green)

DRAFT

2021 CHARTER TOWNSHIP OF UNION
Board of Trustees
Special Meeting Minutes

A special meeting of the Charter Township of Union Board of Trustees was held on October 6, 2021, at 6:00 p.m. at the Union Township Hall.

Meeting was called to order at 6:02 p.m.

Roll Call

Present: Supervisor Mielke, Clerk Cody, Treasurer Rice, Trustee Bills, Trustee Brown, Trustee Hauck, and Trustee Thering

Approval of Agenda

Bills moved **Brown** supported to approve the agenda as presented. **Vote: Ayes: 7 Nays: 0.**
Motion carried.

Public Comment

Open: 6:03 p.m.

No comments were offered.

Closed: 6:04 p.m.

New Business

A. Discussion: Cost Sharing for Subdivision Road Repairs

Discussion by the Board

B. Discussion: ARPA Funds

Discussion by the Board

C. Discussion: Public Safety Service Level

Discussion by the Board

EXTENDED PUBLIC COMMENT: RESTRICTED TO 5 MINUTES REGARDING ANY ISSUE

Open 7:45 p.m.

No comments were offered.

Closed: 7:45 p.m.

FINAL BOARD MEMBER COMMENTS

Brown – Thanked Mark for a great discussion, commented he learned a lot and looking forward to future discussions.

Bills – Echoed Trustee Brown’s comment.

Rice – Thanked the Board for the good discussion.

Mielke – Gave a public apology to Clerk Cody following the September 22nd Board meeting.

Cody – Discussion on voting logistics.

ADJOURNMENT

Rice moved Hauck supported to adjourn the meeting at 7:59 p.m. **Vote: Ayes: 7 Nays: 0.**
Motion carried.

APPROVED BY:

Lisa Cody, Clerk

Bryan Mielke, Supervisor

(Recorded by Tera Green)

DRAFT

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
Bank 101 POOLED CHECKING						
10/04/2021	101	467 (E)	00527	PITNEY BOWES GLOBAL FINANCIAL LLC	RED INK CARTRIDGES FOR METER	382.46
10/04/2021	101	468 (E)	00146	CONSUMERS ENERGY	800 CRAIG HILL 4520 E RIVER 1633 S LINCOLN 5319 E AIRPORT 1046 S MISSION 1605 SCULLY 2010 S LINCOLN 2279 S MERIDIAN PUMP HOUSE 2279 S MERIDIAN 4511 E RIVER RD 2010 S LINCOLN L4 48858 LED 5228 S ISABELLA	59.23 103.84 302.68 44.16 118.51 60.69 823.68 15.00 2,550.75 13,292.71 70.82 118.82 7,040.45
						24,601.34
10/05/2021	101	469 (E)	01105	MASTERCARD	MASTERCARD-TEALL MASTERCARD-NANNEY MASTERCARD-STUHLBREHER MASTERCARD COFFELL MASTERCARD SMITH MASTERCARD OCKERT MASTERCARD WALDRON MASTERCARD THEISEN MASTERCARD BEBOW MASTERCARD ROCKAFELLOW MASTERCARD DEARING MASTERCARD HOHLBIEN MASTERCARD CRAWFORD MASTERCARD RADAR MASTERCARD MCBRIDE MASTERCARD CODY	432.11 435.31 44.97 173.84 190.67 370.28 300.00 90.75 1,624.07 156.73 423.61 634.41 35.65 91.78 674.58 (1.58)
						5,677.18
10/05/2021	101	470 (E)	01105	VOID		
Void Reason: Created From Check Run Process						
10/13/2021	101	23159	00020	JAMES ALWOOD	WELL SITE LEASE-SEP 2021	567.08
10/13/2021	101	23160	01703	AMAZON CAPITAL SERVICES	BLUEPRINT STORAGE RACKS FLEX SPOUT-PARKS	513.00 22.33
						535.33
10/13/2021	101	23161	01644	MARY BENDER	REFUND MCDONALD PAVILION DEPOSIT REFUND MCDONALD PAVILION DEPOSIT	84.00 84.00
						168.00
10/13/2021	101	23162	00066	BILL'S CUSTOM FAB, INC.	GATES FOR OXIDATION DITCHES	1,940.01
10/13/2021	101	23163	00072	BLOCK ELECTRIC	HOOK MISSION CONTROL STATION TO UPS	602.75
10/13/2021	101	23164	01240	BRAUN KENDRICK FINKBEINER PLC	ZALUD LITIGATION-AUGUST 2021 CONCERNED CITIZENS-AUGUST 2021	690.00 3,120.00
						3,810.00

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Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
10/13/2021	101	23165	01750	BURCH TANK	UB refund for account: 04127	49.97
10/13/2021	101	23166	00095	C & C ENTERPRISES, INC.	HAND SANITIZER	158.00
10/13/2021	101	23167	00722	CHARTER TOWNSHIP OF UNION	Q3 UTILITY BILLING-TWP HALL	179.55
					Q3 UTILITY BILLING-PARKS	1,267.75
					Q3 UTILITY BILLING-WWTP	2,278.62
						<u>3,725.92</u>
10/13/2021	101	23168	00129	CMS INTERNET, LLC	MANAGED IT, EMAIL, & PHONE SERVICE-OCT 2	5,358.61
					SURFACE PRO CHARGER-BOARD ROOM	46.99
						<u>5,405.60</u>
10/13/2021	101	23169	01731	COMMERCE CONTROLS INC	ANNUAL CALIBRATION	750.00
10/13/2021	101	23170	01171	DBI BUSINESS INTERIORS	FILE FOLDERS/LABELS/ENVELOPE GLUE	119.19
					LAMINATING PAPER FOR TWP HALL	40.22
					METAL FRAMES-TWP HALL	34.96
					COPYHOLDER	14.71
					PRINTER TONER	286.46
					PAPER-TWP HALL	147.60
						<u>643.14</u>
10/13/2021	101	23171	00180	DETROIT PUMP & MANUFACTURING	HYDRAULIC KIT-CORNERSTONE PUMP STATION	516.20
10/13/2021	101	23172	00207	E & S GRAPHICS, INC	MAILERS FOR ANNUAL CLEAN UP DAY	1,340.72
10/13/2021	101	23173	00098	ELECTION SOURCE	ABSENT VOTER ENVELOPES & INSTRUCTIONS-NO	1,939.81
10/13/2021	101	23174	00201	ELHORN ENGINEERING COMPANY	LIQUID AQUADENE/BULK CHLORINE	5,479.00
10/13/2021	101	23175	00209	ETNA SUPPLY COMPANY	TOILET TANK-JAMESON PARK	46.00
					OMNI WATER METER & METER TRANSCEIVER UNI	1,740.00
					IPERL WATER METERS	4,480.00
					WATER SERVICE TUBES/BRASS COUPLINGS	1,508.50
					FIRE HYDRANT PUMP	199.00
					VALVE BOX-SHOP LIFTSTATION	247.00
						<u>8,220.50</u>
10/13/2021	101	23176	01353	EVOQUA WATER TECHNOLOGIES LLC	BIOXIDE	11,164.04
10/13/2021	101	23177	01749	F. ALLIED CONSTRUCTION	BULK WATER PERMIT #2021-001	55.00
10/13/2021	101	23178	00231	FOUR SEASON'S EXTERMINATING	TWP HALL INSP/TREATMENT-OCT 2021	40.00
10/13/2021	101	23179	01514	GAWNE TRUCKING, INC.	HAULING & LAND APPLICATION OF BIOSOLIDS	26,318.00
10/13/2021	101	23180	00249	GILL-ROY'S HARDWARE	NUTS & BOLTS-FIRE HYD. REPAIR	30.40
10/13/2021	101	23181	01583	GOUDREAU & ASSOCIATES INC.	DOCUMENTS & BIDDING SERVICES-JAMESON PAR	6,170.00
10/13/2021	101	23182	00257	GOURDIE-FRASER, INC.	SITE RESEARCH TYPE 1 WATER WELL SYSTEM	850.00
					JAIL PRELIMINARY UTILITY PLAN REVIEW	427.50
					TOWNSHIP OFFICE LAYOUT PLAN	900.00
						<u>2,177.50</u>
10/13/2021	101	23183	00261	GRAINGER	EPOXY GEL & APPLICATOR	803.71
10/13/2021	101	23184	01746	TERA GREEN	MILEAGE REIMBURSEMENT-BANK RUNS SEP 2021	38.30
10/13/2021	101	23185	01721	HYDROCORP	CROSS CONNECTION PROGRAM SEP 2021 NON-RE	950.00
					CROSS CONNECTION PROGRAM SEP 2021 RESIDE	2,650.00
						<u>3,600.00</u>
10/13/2021	101	23186	00333	ISABELLA COUNTY ROAD COMMISSION	BRINE CONTRACT-2ND PAYMENT	6,560.05
					MCGUIRK ESTATES PAVING	91,218.26

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
					BROADWAY-ISABELLA INTERSECTION BILLING 1	25,864.65
					BRINE CONTRACT 3RD PAYMENT	6,560.05
					MERIDIAN-M20 TO BLUEGRASS	30,870.79
						<u>121,073.80</u>
10/13/2021	101	23187	01324	KENEWELL GROUP	BUSINESS CARDS-NANNEY	61.00
10/13/2021	101	23188	00362	KRAPOHL FORD & LINCOLN	REPAIR-2015 FORD F-250	4,551.33
10/13/2021	101	23189	01300	LINDSAY SOFT WATER	TWP HALL SALT DELIVERY	33.75
10/13/2021	101	23190	01455	JENNIFER LOVEBERRY	MILEAGE REIMBURSEMENT	12.32
					MILEAGE REIMBURSEMENT	3.36
						<u>15.68</u>
10/13/2021	101	23191	00402	MEDLER ELECTRIC CO	MOUNTING COLLAR-AERATOR #4	28.03
					DOOR MOUNTING KIT & ETHERNET/IP-AERATOR	259.18
					PRIOR DEPOSIT 9/8/21-MOUNTING COLLAR	(28.03)
						<u>259.18</u>
10/13/2021	101	23192	00506	MEEKHOF TIRE SALES & SERVICE INC	2016 FORD F-150 TIRES	635.60
10/13/2021	101	23193	00142	MICHIGAN OFFICE SOLUTIONS	PRINTER/COPIER SERV AGREEMENT-OCT 2021	974.51
10/13/2021	101	23194	00422	MICHIGAN PIPE & VALVE-MT. PLEASANT	REPLACE MANHOLE FRAME-LINCOLN RD	523.00
					CONCRETE RINGS FOR MANHOLE-RESERVE APTS	356.00
					VALVE BOX-MAIN LINE VALVE REPAIR	56.00
					RUBBER BOOT FOR MANHOLE CORE-DPW SHOP	11.00
						<u>946.00</u>
10/13/2021	101	23195	01102	STATE OF MICHIGAN - DEQ	DRINKING WATER LAB CERTIFICATION	2,750.71
10/13/2021	101	23196	00739	THE MORNING SUN	MORNING SUN ANNUAL SUBSCRIPTION	744.00
10/13/2021	101	23197	00463	MT. PLEASANT HEATING & AIR COND	ZONE VALVE-TWP HALL	317.60
10/13/2021	101	23198	00466	MT. PLEASANT RENTAL CENTER	CORE DRILL & BIT RENTAL	146.65
					PORTA JOHN FOR CLEAN-UP DAY	91.80
						<u>238.45</u>
10/13/2021	101	23199	00128	CITY OF MT. PLEASANT	4TH QUARTER FIRE CONTRACT PAYMENT	199,075.00
10/13/2021	101	23200	00472	MUNICIPAL CODE CORPORATION	ONLINE CODE HOSTING 10/1/21 TO 9/30/22	900.00
10/13/2021	101	23201	01663	RODNEY NANNEY	MILEAGE REIMBURSEMENT-MIDDLE MICHIGAN BR	27.44
10/13/2021	101	23202	00494	NORTH CENTRAL LABORATORIES	PHOSPHORUS/AMMONIA TEST N TUBE PLUS	2,173.81
					SEPARATORY FUNNEL/PLASTIC BOD BOTTLES	316.94
						<u>2,490.75</u>
10/13/2021	101	23203	01631	NOLAN OCKERT	MILEAGE REIMBURSEMENT	20.83
					MILEAGE REIMBURSEMENT	20.83
						<u>41.66</u>
10/13/2021	101	23204	00131	PERCEPTIVE CONTROLS, INC	VFD SUPPORT SERVICES	848.65
					WTP SUPPORT SERVICES	3,576.55
					MERIDIAN PROGRAM SUPPORT	2,772.00
					WWTP SUPPORT SERVICES	378.00
						<u>7,575.20</u>
10/13/2021	101	23205	01598	POWDER COAT OF CENTRAL MICHIGAN	SCREW PUMP #3 BELT GUARD	325.00

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
10/13/2021	101	23206	01595	ROMANOW BUILDING SERVICES	JANITORIAL SERVICES AUG 2021-WWTP JANITORIAL SERVICES AUG 2021-WTR	316.29 316.29 <u>632.58</u>
10/13/2021	101	23207	01293	SHAY WATER CO/CUSTOM COFFEE SERV	COFFEE FOR TOWNSHIP HALL	120.00
10/13/2021	101	23208	01495	MARK STUHLBREHER	CLEAN UP DAY WATER & DONUTS	60.30
10/13/2021	101	23209	01660	MARK THEISEN	MILEAGE REIMBURSEMENT MILEAGE REIMBURSEMENT MILEAGE REIMBURSEMENT	16.80 16.80 16.80 <u>50.40</u>
10/13/2021	101	23210	01654	TRACE ANALYTICAL LABORATORIES, INC.	SAMPLE HANDLING, STORAGE, & DISPOSAL SAMPLE HANDLING, STORAGE, & DISPOSAL	155.20 807.00 <u>962.20</u>
10/13/2021	101	23211	01013	USA BLUE BOOK	TUBE ASSEMBLY FOR PUMPS/MALE & FEMALE CO	1,379.85
10/13/2021	101	23212	01314	VERIZON WIRELESS	CELL PHONES 8-16-21 TO 9-15-21	451.71
10/13/2021	101	23213	01257	JOSH WALDRON	MILEAGE REIMBURSEMENT MILEAGE REIMBURSEMENT CLOTHING ALLOWANCE REIMBURSEMENT MILEAGE REIMBURSEMENT	11.20 11.20 100.00 11.20 <u>133.60</u>
10/13/2021	101	23214	00703	WASTE MANAGEMENT OF MICHIGAN, INC	DUMPSTER SERVICE-TWP OCT 2021 DUMPSTER SERVICE-SHOP OCT 2021 DUMPSTER SERVICE-JAMESON SEP 2021 DUMPSTER SERVICE-WTR OCT 2021 DUMPSTER SERVICE-WWTP OCT 2021 DUMPSTER SERVICE MCDONALD OCT. 2021 DUMPSTER SERVICE-WWTP SEP 2021	56.35 41.00 96.21 40.54 220.55 121.61 (209.96) <u>366.30</u>
10/13/2021	101	23215	01236	WEB ASCENDER	WEBSITE Q4 HOSTING 2021	90.00
10/13/2021	101	23216	00723	WINN TELECOM	PHONE SERVICE 10/1/21 TO 10/31/21	336.16 <u><u>336.16</u></u>

101 TOTALS:

Total of 62 Checks:	464,529.72
Less 1 Void Checks:	0.00
Total of 61 Disbursements:	<u>464,529.72</u>

Charter Township of Union Payroll
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CHECK DATE: September 30, 2021

PPE: September 25, 2021

NOTE: PAYROLL TRANSFER NEEDED

General Fund	\$	26,472.00
Fire Fund		90.22
EDDA		
WDDA		
Sewer Fund		26,732.31
Water Fund		18,363.94
Total To Transfer from Pooled Savings		\$ 71,658.47

NOTE: CHECK TOTAL FOR TRANSFER

Gross Payroll	\$	61,380.51
Employer Share Med		884.18
Employer Share SS		3,780.61
SUI		31.58
Pension-Employer Portion		5,008.23
Workers' Comp		573.36
Life/LTD		-
Dental		-
Health Care		-
Vision		-
Vision Contribution		-
Health Care Contribution		-
Cobra/Flex Administration		-
PCORI Fee		-
Total Transfer to Payroll Checking		\$ 71,658.47

TOTAL TRANSFER FROM POOLED SAVINGS TO PAYROLL ACCOUNT

CONFIRMATION NUMBER: _____ **DATE:** _____

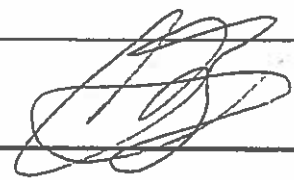
ACH NUMBER: _____ **TIME:** _____

**CHARTER TOWNSHIP OF UNION
MEETING PAY REQUEST FORM
2021**

BOARD MEMBER: Connie Lee Bills

MONTH: August and September 21, 2021

Date	Meeting	Time Attended		Total
		1hr or less	More than Hr	
9/21/2021	Isabella County Board of Commissioners	X		50.00
9/16/2021	SCIT Round Table		X	75.00
9/07/2021	Isabella County Board of Commissioners	X		50.00
8/18/2021	Council of governments	X		50.00
8/16/2021	Election commission	X		50.00
8/17/2021	isabella County Board of Commissioners	X		50.00
8/03/2021	isabella County Board of Commissioners	X		50.00
				\$375.00

SIGNATURE: 

Date: 9/21/21

1. This form is filled out by the board member monthly and turned into the Finance Director. Completed requests will be added to the consent agenda for approval at the next regular board meeting. After board approval, payment will be added to the next regular payroll process.
2. Only list those meetings that you have attended. You are required to list the amount of meeting time you were in attendance. The amount paid is subject to the time you spent during the actual meeting. 1 to 60 minutes is reimbursed at \$50. Anything greater than 60 minutes is reimbursed at \$75.
3. Attendances at all day conferences/sessions are reimbursed as one meeting at \$75.



Union Township Report-1

Date: Wednesday, September 22, 2021



Alarm Date between 2021-08-02 and 2021-08-31

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
Union Township	0000559						
		8/2/2021 5:35:02 PM	700	False alarm or false call, other	ENG 32	2	1
						Total Responding 2	
Union Township	0000560						
		8/2/2021 11:46:59 AM	322	Motor vehicle accident with injuries	ENG 32	3	1
		8/2/2021 11:46:59 AM	322	Motor vehicle accident with injuries	C 31	1	1
						Total Responding 4	
Union Township	0000563						
		8/4/2021 2:49:23 AM	611	Dispatched & canceled en route	ENG 32	2	1

							Total Responding 2
Union Township	0000567						
		8/6/2021 11:21:40 PM	551	Assist police or other governmental agency	ENG 32	2	1
						Total Responding 2	
Union Township	0000574						
		8/9/2021 8:09:19 PM	733	Smoke detector activation due to malfunction	ENG 33	2	1
						Total Responding 2	
Union Township	0000577						
		8/10/2021 11:18:48 AM	321	EMS call, excluding vehicle accident with injury	ENG 33	2	1
						Total Responding 2	
Union Township	0000582						

		8/10/2021 11:44:25 PM	745	Alarm system activation, no fire - unintentional	ENG 33	2	1
						Total Responding 2	
Union Township	0000585						
		8/11/2021 1:00:00 AM	444	Power line down	ENG 32	0	1
						Total Responding	
Union Township	0000592						
		8/11/2021 1:16:00 AM	444	Power line down	ENG 32	1	1
						Total Responding 1	
Union Township	0000595						
		8/11/2021 1:21:00 AM	444	Power line down	Brush 31	1	1
						Total Responding 1	

Union Township	0000599						
		8/11/2021 1:29:00 AM	444	Power line down	ENG 32	1	1
						Total Responding 1	
Union Township	0000611						
		8/11/2021 2:32:00 AM	813	Wind storm, tornado/hurricane assessment	Brush 31	2	1
						Total Responding 2	
Union Township	0000612						
		8/11/2021 7:09:26 AM	444	Power line down	C 31	1	1
		8/11/2021 7:09:26 AM	444	Power line down	ENG 33	2	1
						Total Responding 3	
Union Township	0000616						

		8/11/2021 9:17:41 AM	444	Power line down	C 31	1	1
						Total Responding 1	
Union Township	0000619						
		8/11/2021 9:31:48 AM	733	Smoke detector activation due to malfunction	ENG 33	2	1
						Total Responding 2	
Union Township	0000620						
		8/11/2021 12:35:09 PM	813	Wind storm, tornado/hurricane assessment	ENG 33	2	1
						Total Responding 2	
Union Township	0000623						
		8/11/2021 6:23:04 PM	322	Motor vehicle accident with injuries	ENG 33	2	1
						Total Responding 2	

Union Township	0000627						
		8/12/2021 10:12:36 PM	311	Medical assist, assist EMS crew	ENG 33	3	1
						Total Responding 3	
Union Township	0000631						
		8/14/2021 7:40:34 PM	735	Alarm system sounded due to malfunction	ENG 33	2	1
						Total Responding 2	
Union Township	0000632						
		8/14/2021 9:05:18 PM	631	Authorized controlled burning	ENG 33	2	1
						Total Responding 2	
Union Township	0000635						
		8/15/2021 3:24:41 PM	733	Smoke detector activation due to malfunction	ENG 33	3	1
						Total	

							Responding 3
Union Township	0000637						
		8/16/2021 7:03:29 PM	322	Motor vehicle accident with injuries	ENG 33	3	1
						Total Responding 3	
Union Township	0000639						
		8/18/2021 9:23:09 PM	463	Vehicle accident, general cleanup	ENG 33	3	1
						Total Responding 3	
Union Township	0000644						
		8/19/2021 9:43:38 PM	561	Unauthorized burning	ENG 33	3	1
						Total Responding 3	
Union Township	0000645						

		8/19/2021 9:14:57 PM	311	Medical assist, assist EMS crew	ENG 33	2	1
		8/19/2021 9:14:57 PM	311	Medical assist, assist EMS crew	C 31	1	1
						Total Responding 3	
Union Township	0000647						
		8/20/2021 1:57:07 PM	322	Motor vehicle accident with injuries	ENG 33	2	1
		8/20/2021 1:57:07 PM	322	Motor vehicle accident with injuries	C 31	1	1
		8/20/2021 1:57:07 PM	322	Motor vehicle accident with injuries	Assistant Chief	1	1
						Total Responding 4	
Union Township	0000649						
		8/21/2021 1:34:29 PM	322	Motor vehicle accident with injuries	ENG 33	2	1
						Total Responding 2	
Union Township	0000650						

		8/21/2021 7:26:33 PM	322	Motor vehicle accident with injuries	ENG 33	2	1
						Total Responding 2	
Union Township	0000653						
		8/21/2021 11:20:56 PM	131	Passenger vehicle fire	ENG 33	2	4
		8/21/2021 11:20:56 PM	131	Passenger vehicle fire	POV	4	4
						Total Responding 6	
Union Township	0000658						
		8/23/2021 12:58:04 PM	311	Medical assist, assist EMS crew	ENG 31	2	1
		8/23/2021 12:58:04 PM	311	Medical assist, assist EMS crew	C 31	1	1
		8/23/2021 12:58:04 PM	311	Medical assist, assist EMS crew	SCH 31	1	1
						Total Responding 4	
Union Township	0000667						

		8/24/2021 8:10:39 PM	444	Power line down	ENG 31	2	2
						Total Responding 2	
Union Township	0000672						
		8/25/2021 6:17:51 PM	412	Gas leak (natural gas or LPG)	ENG 31	2	1
						Total Responding 2	
Union Township	0000674						
		8/26/2021 12:28:35 AM	113	Cooking fire, confined to container	ENG 31	2	1
						Total Responding 2	
Union Township	0000678						
		8/26/2021 10:56:07 AM	445	Arcing, shorted electrical equipment	ENG 31	2	1
		8/26/2021 10:56:07 AM	445	Arcing, shorted electrical equipment	C 31	1	1
						Total	

							Responding 3	
Union Township	0000679							
		8/26/2021 12:30:19 PM	311	Medical assist, assist EMS crew	ENG 31		2	1
							Total Responding 2	
Union Township	0000683							
		8/27/2021 3:05:59 AM	743	Smoke detector activation, no fire - unintentional	ENG 31		2	1
							Total Responding 2	
Union Township	0000689							
		8/28/2021 10:22:42 AM	311	Medical assist, assist EMS crew	ENG 31		2	1
		8/28/2021 10:22:42 AM	311	Medical assist, assist EMS crew	C 31		1	1
							Total Responding 3	

Union Township	0000695						
		8/29/2021 8:48:17 AM	320	Emergency medical service incident, other	ENG 31	2	1
						Total Responding 2	
Union Township	0000698						
		8/30/2021 3:40:42 PM	322	Motor vehicle accident with injuries	ENG 31	3	1
						Total Responding 3	
Union Township	0000699						
		8/30/2021 5:38:57 PM	311	Medical assist, assist EMS crew	ENG 31	3	1
						Total Responding 3	
Union Township	0000700						
		8/30/2021 9:05:28 PM	622	No incident found on arrival at dispatch address	ENG 31	3	1
						Total Responding 3	

	Total Runs 41						Total Responding 98

Note: Alarms

1=Duty Crew

2=Paged Off Duty Full-time

3=Paged Paid-on-Call Firefighters

4=Paged All

Highlighted Yellow Indicates an Emergency Call



Union Township Report-1

Date: Wednesday, September 22, 2021



Alarm Date between 2021-09-01 and 2021-09-19

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
Union Township	0000709						
		9/2/2021 3:26:59 PM	740	Unintentional transmission of alarm, other	ENG 31	2	1
						Total Responding 2	
Union Township	0000710						
		9/2/2021 10:48:20 AM	321	EMS call, excluding vehicle accident with injury	ENG 31	2	1
						Total Responding 2	
Union Township	0000712						
		9/3/2021 2:15:20 AM	321	EMS call, excluding vehicle accident with injury	ENG 31	2	1
						Total Responding 2	

Union Township	0000713						
		9/3/2021 3:45:16 PM	611	Dispatched & canceled en route	ENG 31	3	1
						Total Responding 3	
Union Township	0000717						
		9/4/2021 5:31:40 PM	322	Motor vehicle accident with injuries	ENG 31	2	1
						Total Responding 2	
Union Township	0000719						
		9/5/2021 3:33:35 PM	322	Motor vehicle accident with injuries	ENG 32	2	3
		9/5/2021 3:33:35 PM	322	Motor vehicle accident with injuries	POV	6	3
						Total Responding 8	
Union Township	0000720						

		9/5/2021 7:54:06 PM	710	Malicious, mischievous false call, other	ENG 32	2	1
						Total Responding 2	
Union Township	0000724						
		9/6/2021 6:27:46 PM	322	Motor vehicle accident with injuries	ENG 32	2	1
						Total Responding 2	
Union Township	0000729						
		9/7/2021 3:06:10 PM	444	Power line down	ENG 32	3	1
						Total Responding 3	
Union Township	0000730						
		9/8/2021 10:28:40 AM	321	EMS call, excluding vehicle accident with injury	ENG 32	2	1
						Total Responding 2	

Union Township	0000750						
		9/13/2021 11:39:35 AM	311	Medical assist, assist EMS crew	ENG 32	2	1
		9/13/2021 11:39:35 AM	311	Medical assist, assist EMS crew	SCH 31	1	1
						Total Responding 3	
Union Township	0000753						
		9/13/2021 5:24:50 PM	100	Fire, other	ENG 32	2	1
						Total Responding 2	
Union Township	0000756						
		9/14/2021 4:44:55 AM	743	Smoke detector activation, no fire - unintentional	ENG 32	2	1
						Total Responding 2	
Union Township	0000757						
		9/14/2021 10:16:25 PM	321	EMS call, excluding vehicle accident with injury	ENG 32	2	2

						Total Responding 2	
Union Township	0000759						
		9/15/2021 5:26:57 PM	321	EMS call, excluding vehicle accident with injury	ENG 32	3	1
						Total Responding 3	
Union Township	0000760						
		9/15/2021 8:37:33 PM	323	Motor vehicle/pedestrian accident (MV Ped)	ENG 32	3	1
						Total Responding 3	
Union Township	0000762						
		9/16/2021 6:34:44 AM	743	Smoke detector activation, no fire - unintentional	ENG 32	2	1
						Total Responding 2	
Union Township	0000764						

		9/16/2021 2:32:18 PM	154	Dumpster or other outside trash receptacle fire	ENG 32	2	1
						Total Responding 2	
Union Township	0000766						
		9/16/2021 5:53:11 PM	322	Motor vehicle accident with injuries	ENG 32	2	1
						Total Responding 2	
Union Township	0000769						
		9/17/2021 4:19:15 PM	733	Smoke detector activation due to malfunction	ENG 32	2	1
						Total Responding 2	
Union Township	0000771						
		9/18/2021 9:59:31 PM	561	Unauthorized burning	ENG 32	2	1
						Total Responding 2	

	Total Runs 21									Total Responding 53
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Note: Alarms

1=Duty Crew

2=Paged Off Duty Full-time

3=Paged Paid-on-Call Firefighters

4=Paged All

Highlighted Yellow Indicates an Emergency Call



Union Township Report-1

Date: Tuesday, September 28, 2021



Alarm Date between 2021-09-20 and 2021-09-26

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
Union Township	0000781						
		9/21/2021 2:54:02 PM	322	Motor vehicle accident with injuries	ENG 33	2	3
		9/21/2021 2:54:02 PM	322	Motor vehicle accident with injuries	SCH 31	1	3
		9/21/2021 2:54:02 PM	322	Motor vehicle accident with injuries	POV	5	3
						Total Responding 8	
Union Township	0000782						
		9/22/2021 1:10:04 AM	746	Carbon monoxide detector activation, no CO	ENG 33	2	1
						Total Responding 2	

Union Township	0000789						
		9/23/2021 7:30:59 PM	700	False alarm or false call, other	ENG 33	2	1
						Total Responding 2	
	Total Runs 3					Total Responding 12	

Note: Alarms

1=Duty Crew

2=Paged Off Duty Full-time

3=Paged Paid-on-Call Firefighters

4=Paged All

Highlighted Yellow Indicates an Emergency Call



Union Township Report-1

Date: Tuesday, October 5, 2021



Alarm Date between 2021-09-27 and 2021-10-03

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
Union Township	0000802						
		9/27/2021 8:51:22 AM	112	Fires in structure other than in a building	ENG 33	2	3
		9/27/2021 8:51:22 AM	112	Fires in structure other than in a building	ENG 31	1	3
		9/27/2021 8:51:22 AM	112	Fires in structure other than in a building	POV	5	3
		9/27/2021 8:51:22 AM	112	Fires in structure other than in a building	C 31	1	3
		9/27/2021 8:51:22 AM	112	Fires in structure other than in a building	Assistant Chief	1	3
						Total Responding 10	
Union Township	0000807						
		9/29/2021 11:52:00 AM	451	Biological hazard, confirmed or suspected	CHIEF	1	1
		9/29/2021 11:52:00 AM	451	Biological hazard, confirmed or suspected	ENG 33	2	1

		9/29/2021 11:52:00 AM	451	Biological hazard, confirmed or suspected	SQ 31	1	1
						Total Responding 4	
Union Township	0000809						
		9/29/2021 4:22:09 PM	622	No incident found on arrival at dispatch address	ENG 33	2	3
		9/29/2021 4:22:09 PM	622	No incident found on arrival at dispatch address	ENG 32	1	3
		9/29/2021 4:22:09 PM	622	No incident found on arrival at dispatch address	C 31	1	3
		9/29/2021 4:22:09 PM	622	No incident found on arrival at dispatch address	POV	6	3
						Total Responding 10	
Union Township	0000815						
		10/1/2021 4:05:45 PM	321	EMS call, excluding vehicle accident with injury	ENG 33	2	1
						Total Responding 2	
Union Township	0000816						

		10/1/2021 8:35:59 PM	440	Electrical wiring/equipment problem, other	ENG 33	2	1
						Total Responding 2	
Union Township	0000817						
		10/2/2021 1:46:41 AM	611	Dispatched & canceled en route	ENG 33	2	1
						Total Responding 2	
Union Township	0000818						
		10/2/2021 2:47:48 AM	321	EMS call, excluding vehicle accident with injury	ENG 33	2	1
						Total Responding 2	
	Total Runs 7					Total Responding 32	

Note: Alarms

1=Duty Crew

2=Paged Off Duty Full-time

3=Paged Paid-on-Call Firefighters

4=Paged All

Highlighted Yellow Indicates an Emergency Call

To: Mark Stuhldreher - Township Manager **DATE:** September 22, 2021
FROM: Kim Smith – Public Service Director **DATE FOR BOARD CONSIDERATION:** October 13, 2021
ACTION REQUESTED: Approval of the Participation Agreement with the Economic Development Authority (EDA) for Phase II funding of the Jameson Park Upgrades in the amount of \$191,285.09 and authorize the Township Manager to sign the Agreement

Current Action Emergency

Funds Budgeted: If Yes Account # 248-728-967.600 No N/A

Finance Approval MDS

BACKGROUND INFORMATION

In February of 2018, the Economic Development Authority Board (EDA) approved a 2018/2019 Project List for both the East and West DDA Districts. As part of this list the EDA Board approved \$50,000.00 to make improvements at Jameson Park. At a subsequent meeting the EDA Board expressed their desire to have a professional firm prepare a Planning and Design Master Plan for Jameson Park. The Master Plan was completed to help guide the EDA and Township Board in making decisions on appropriate improvements, timing, and provide cost estimates for these improvements.

In September of 2018, the EDA Board approved a proposal from Goudreau & Associates for the completion of the Jameson Park Planning and Design Master Plan. Over the next several months inspections by professional firms were conducted to assess the facilities and provide recommendations for repairs and improvements to the park. A public input meeting was held in May of 2019 to receive suggestions from township stakeholders.

In June of 2019 Goudreau & Associates presented the findings to the EDA Board. The presentation included a detailed list of improvements. At the July 2019 EDA Board Meeting a Jameson Park Improvements Subcommittee was created to review and recommend future project funding at Jameson Park.

The plan identified an extensive list of code related, interior, and exterior site improvements for the park. Funding constraints required that the project be split into two phases. Phase I was completed in 2020/2021 and included code related, and interior improvements. Based upon the original improvements list the FY2021 Township General Fund and EDA Approved Budgets include funding for the completion of Phase II of the project. Phase II of the project consist of exterior, interior, and site improvements to Jameson Park.

The original scope and budgetary cost estimates of the improvements included in the Phase II Bid Package are as follows:

<i>Improvements</i>	<i>Estimated Budget</i>
Stone Base on exterior of hall (south and west only) (bid - accept alternate - 4,500 and include north side of bldg. +8,770.05)	28,600.00
Fencing (aluminum fence, fence columns, vinyl screen, replace cattle gate)	39,500.00
Landscaping	12,000.00
New park sign	32,790.00
Awning over south door	1,000.00
infill exterior door to create interior storage	8,000.00

dumpster enclosure	16,000.00
re-roof dugouts	5,000.00
new bollards at curve on Bud Street	5,500.00
replace south door - repair parking lot near south door (moved from phase I due to parking lot/drainage issues)	25,000.00
Parking Lot Bumpers	580.00
Parking Lot Lighting	15,000.00
Project Contingency	22,258.50
Design, bidding, construction observation	17,064.85
Total	228,293.35

In order to provide funding flexibility Phase II of the project was bid with several alternates. Bids for the project were received on July 19, 2021. One bid was received for this project from Konwinski Construction.

The bid is as follows:

CONTRACTOR	BASE BID GENERAL CONTRACT	BASE BID SITE CIVIL	BID ALTERNATES 1A – 9	TOTAL
Konwinski Construction Inc.	\$42,000.00	\$57,000.00	\$142,823.52	\$241,823.52

To stay within the original budget, it was determined that not all of the alternates could be completed. An evaluation of the alternates one through nine was completed to determine which items could be eliminated that would have the least amount of impact on the appearance and overall function of the park. A post-bid addendum was also issued to break out the pricing for the fencing alternate. After the evaluation it was determined that the chain link fencing around the retention pond, metal awning over south entrance door, and parking lot sealcoating would be removed from the project to keep the project within the original budget.

On August 11, 2021, the Township Board of Trustees awarded the completion of the Jameson Park Phase II Improvements to Konwinski Construction Inc. in the amount of \$207,431.36.

SCOPE OF SERVICES

All of the labor and materials necessary to complete the construction of the Phase II Jameson Park Improvements Project. This includes the architectural and MEP base bid, site civil base bid, alternates 1A, 1B, 2A, 3, 5, 6, 7, 8, and voluntary stone alternate.

JUSTIFICATION

Jameson Park supports year-round opportunities for residents in our community to be physically active and reinvigorate themselves both mentally and physically. As the only park located on the east side of our community the park is an ideal place for residents in the area to enjoy the facilities. The hall, pavilion, and park green area provide space for families and friends to gather and celebrate milestones and special events. Jameson Park enhances wellness in our area youth by providing safe and well-maintained facilities for organized physical activities like softball and little league.

The proposed improvements to Jameson Park will improve the overall safety in the park, provide additional recreational opportunities, and enhance the overall appearance and functionality of the park.

The Township Administration and Goudreau and Associates have reviewed the bids and recommended to the Township Board of Trustees that the construction of Phase II Jameson Park Improvements be awarded to Konwinski Construction in the amount of \$207,431.36. Based on this recommendation and Konwinski Construction’s qualifications the Board of Trustees awarded Phase II Construction to Konwinski Construction on August 11, 2021.

At their September 21, 2021 meeting the EDA Board approved the Jameson Park Phase II Participation Agreement in the amount of \$191,285.09.

PROJECT IMPROVEMENTS

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

- Community well-being and common good
- Safety
- Health

COSTS

KONWINSKI CONSTRUCTION PHASE II BID BREAKDOWN

ITEM	AMOUNT
Base Bid – General Contract	\$42,000.00
Base Bid – Site Civil	\$57,000.00
Alternate 1A – stone south and west	\$35,132.39
Alternate 1B – stone north	\$8,770.05
Alternate 2 – fencing – post bid addendum #1	\$32,710.00
Alternate 3 – park sign	\$10,412.70
Alternate 5 – infilling door	\$7,517.64
Alternate 6 – dugouts (new roofs & painting)	\$7,799.12
Alternate 7 – bollards	\$4,500.00
Alternate 8 – landscaping	\$6,089.46
Voluntary Alternate for Stone – deduct	-\$4,500.00
Total Phase II	\$207,431.36

PHASE I PROJECT COST

PROJECT COST	AMOUNT
Goudreau and Associates Design & Bidding Services Contract (approved May 2020) Phase I & II	\$34,882.00
Central Michigan Surveying & Development Design Contract (approved May 2020) Phase I & II	\$15,350.00
Konwinski Construction Phase I Construction Contract (final cost)	\$109,589.50
Total Project Cost	\$159,821.50

PHASE II PROJECT COST

PROJECT COST	AMOUNT
Goudreau and Associates & Central Michigan Survey & Development Design & Bidding Services Contract (approved May 2020) Phase I & II	SEE ABOVE
Konwinski Construction Phase II Construction Contract	\$207,431.36
Project Contingency	\$20,743.13
Total Project Cost	\$228,174.49

PHASE I & II TOTAL PROJECT COST

PROJECT COST	AMOUNT
Goudreau and Associates Design & Bidding Services Contract (approved May 2020) Phase I & II	\$34,882.00
Central Michigan Surveying & Development Design Contract (approved May 2020) Phase I & II	\$15,350.00
Konwinski Construction Phase I Construction Contract (Final Cost)	\$109,589.50
Konwinski Construction Phase II Construction Contract (pending approval)	\$207,431.36
Total Estimated Project Cost (Phase I & Phase II)	\$367,252.86

JAMESON PARK IMPROVEMENTS TOTAL INVESTMENT

PROJECT COST	AMOUNT
Goudreau and Associates Design & Bidding Services Contract (approved May 2020) Phase I & II	\$34,882.00
Central Michigan Surveying & Development Design Contract (approved May 2020) Phase I & II	\$15,350.00
Phase I & II Construction Contracts (Phase II pending approval)	\$317,020.86
Purchase and Installation of Playground Equipment	\$52,066.44
Total Estimated Project Cost (Phase I & Phase II)	\$419,319.30

PROJECT FUNDING

Funds are included in the EDA and General Fund FY2021 Proposed Budget to complete the Jameson Park Improvements Project Phase II construction as follows:

<i>Phase II - Funding</i>	
FY2021 General Fund Budget	\$37,200.00
FY2021 EDA Budget	\$87,285.09
FY2021 EDA Budget Adjustment approved 2-24-2021	\$104,000.00
Total Funding	\$228,485.09

PROJECT TIME TABLE

Phase II Construction
Commenced in September 2021
12-week estimated construction schedule (dependent on availability of materials)

RESOLUTION

Approval of the Participation Agreement with the Economic Development Authority (EDA) for Phase II funding of the Jameson Park Upgrades in the amount of \$191,285.09 and authorize the Township Manager to sign the Agreement

Resolved by _____ Seconded by _____

- Yes:
- No:
- Absent:

Economic Development Authority Participation Contract

This Agreement is made and entered into by and between the Charter Township of Union Board of Trustees, County of Isabella, hereinafter referred to as the **"Township Board"** and the Economic Development Authority Board for the Charter Township of Union, County of Isabella, hereinafter referred to as the **"EDA"**, for the following improvements:

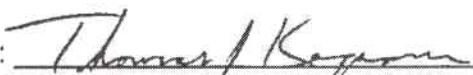
Jameson Park Upgrades Phase II – 5142 Bud Street	
Estimated Construction Cost before Contingency	\$ 207,431.36
Construction Contingency	<u>\$ 20,743.13</u>
Total Phase II Project Estimated Cost	\$ 228,174.49
Charter Township of Union General Fund Share	\$ 37,200.00
EDA Share	<u>\$ 191,285.09</u>
Total Project Resources	\$228,485.09

Payment as stated above will be due upon receipt of invoice. Projects which carryover between fiscal years may be billed as the ratio of costs incurred to date.

The undersigned EDA officials, by executing this agreement, certify they are authorized to enter into this agreement on behalf of the EDA.

**Charter Township of Union Economic
Development Authority**

Charter Township of Union Board of Trustees

By: 
Thomas Kequom, Chair

By: _____
Mark Stuhldreher, Manager

EDA Approval on: September 7, 2021

Board Approval on: _____

REQUEST FOR TOWNSHIP BOARD ACTION

To: Mark Stuhldreher - Township Manager **DATE:** September 22, 2021

FROM: Kim Smith – Public Service Director **DATE FOR BOARD CONSIDERATION:** October 13, 2021

ACTION REQUESTED: Approval of the bid from Plummer’s Environmental in the amount of \$119,093.00, for the rehabilitation of (19) nineteen sanitary sewer manhole structures located on Concourse Drive, Billbrael Drive, and Meadowlark Drive.

Current Action Emergency

Funds Budgeted: If Yes Account # 590-536-930.000 No N/A

Finance Approval MDS

BACKGROUND INFORMATION

As part of the Township’s ongoing Sanitary Sewer Asset Management Program (19) nineteen sanitary sewer manhole structures were identified as the next critical manholes requiring rehabilitation. This rehabilitation includes cleaning, leak stop, and/or cured in place lining of the manhole structures. The project was competitively bid and a public bid opening was held on September 15, 2021 at 10:30 a.m. One bid was received for this project. This bid is as follows:

Bidder	Amount
Plummer’s Environmental	\$119,093.00

SCOPE OF SERVICES

- Concourse Drive – cleaning, leak stop & cured in place liner (CIP) – (11) manhole structure
- Billbrael Drive – cleaning, leak stop & cured in place liner (CIP) – (4) manhole structures
- Meadowlark Drive – cleaning, leak stop & cured in place liner (CIP) – (4) manhole structures

JUSTIFICATION

We recommend that Plummer’s Environmental be awarded the sanitary sewer manhole structure rehabilitation repairs in the amount of \$119,093.00. This recommendation is based on the history of successful repair and maintenance work performed by Plummer’s Environmental for Union Township as well as their responsiveness to the Request for Proposal (RFP).

PROJECT IMPROVEMENTS

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

1. Community well-being and common good
2. Safety
3. Health

COSTS

\$119,093.00

This project is included in the FY2021 Approved Sanitary Sewer Budget - account number 590-536-930.000

PROJECT TIME TABLE

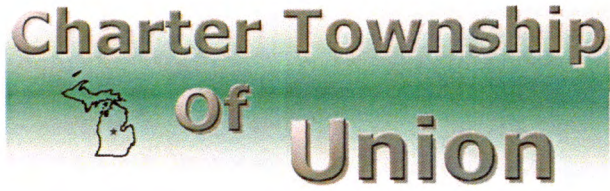
45 days after receipt of Notice to Proceed

RESOLUTION

Approval of the bid from Plummer’s Environmental in the amount of \$119,093.00 for the rehabilitation of (19) nineteen sanitary sewer manhole structures located on Concourse Drive, Billbrael Drive, and Meadowlark Drive.

Resolved by _____ Seconded by _____

Yes:
No:
Absent:



5228 South Isabella Road
 Mt. Pleasant, MI 48858
 989-772-4600 ext. 224 (phone)
 989-773-1988 (fax)
 ksmith@uniontownshipmi.com

Bid Tabulation Sheet

Project: 2021 Manhole Rehb

Due Date: September 15, 2021 @ 10:30 a.m.

Bidder	Bid Bond	Amount
<i>Plummers Environmental</i>	<input checked="" type="checkbox"/>	<i>119,093.00</i>

Humbly Smith _____ 8-15-2021

John Beben _____ 9-15-2021



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858

Phone (989) 772600 ext. 224
Fax (989) 773 1988
E Mail ksmith@uniontownshipmi.com

2021 - REHABILITATION OF SANITARY SEWER MANHOLE STRUCTURES SPECIFICATION

SECTION 1: GENERAL

1.01 DESCRIPTION

This specification includes all work, materials and equipment required for the structural rehabilitation of nineteen (19) sanitary sewer manhole structures located in The Charter Township of Union Township. The nineteen (19) manholes are located on Concourse Drive, Billbrael Drive, and Meadowlark Drive in Union Township. The purpose is to clean, vacuum, and inspect sanitary sewer manholes as well as eliminate infiltration, repair voids, restore structural integrity and provide corrosion protection by the application of a specified cure in place liner to the wall and bench surfaces of brick/concrete structures or structures produced with any other masonry construction material. These structures include, but are not limited to manholes.

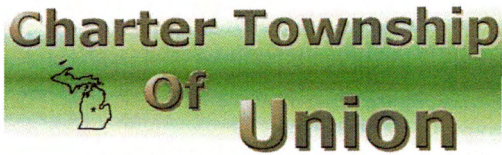
1.02 QUALITY ASSURANCE

- A. Furnish materials of quality required by the American Society for Testing and Materials (ASTM) standards or other approved standards and specifications.
- B. Provide guarantee against defective materials and workmanship in accordance with the requirements of these specifications.
- C. The contractor installing the finished protective liner will be a certified trained applicator of the specified processes. Contractor must include with bid documents at least three verifiable references of projects completed within the last five years using the specified materials.
- D. Provide verifiable independent third-party creep test, and/or holiday/spark test results documenting no less than 70% retention of flexural modulus of elasticity after 50 years of service. The third-party testing firm may not be affiliated with the manufacturer in any way.

1.03 REFERENCES

American Society for Testing and Materials (ASTM) Annual Book of Standards:

- A. ASTM D638-91: Test Method for Tensile Properties of Plastics.
- B. ASTM D790-91: Test Methods for Flexural Properties of Unreinforced and reinforced Plastics and Electrical Insulating Materials.
- C. ASTM D638 - Tensile Properties of Plastics.
- D. ASTM D790 - Flexural Properties of Unreinforced and Reinforced Plastics.
- E. ASTM D695 - Compressive Properties of Rigid Plastics.
- F. ASTM D4541 - Pull-off Strength of Coatings Using a Portable Adhesion Tester.
- G. ASTM D2584 - Volatile Matter Content.



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- H. ASTM D543 - Resistance of Plastics to Chemical Reagents.
- I. ASTM C109 - Compressive Strength Hydraulic Cement Mortars.
- J. ACI 506.2-77 - Specifications for Materials, Proportioning, and Application of Shotcrete.
- K. ASTM C579 - Compressive Strength of Chemically Setting Silicate and Silica Chemical Resistant Mortars.
- L. SSPC SP-13/NACE No. 6 – Surface Preparation of Concrete
- M. ASTM - The published standards of the American Society for Testing and Materials, West Conshohocken, PA.
- N. NACE - The published standards of National Association of Corrosion Engineers (NACE International), Houston, TX.
- O. SSPC - The published standards of the Society of Protective Coatings, Pittsburgh, PA.
- P. ASTM D-4787 D5162 – Holiday/spark testing
- Q. NACE RPO 188-88 -Holiday/spark testing

1.04 PROJECT/SITE CONDITIONS

Coordinate with the Utility Foreman, MDOT, and the Isabella County Road Commission for traffic control and all required permitting during rehabilitation work at each designated location. All permitting is the responsibility of the contractor and a copy of all required permits must be provided to the Charter Township of Union prior to work commencing.

1.05 SEQUENCING

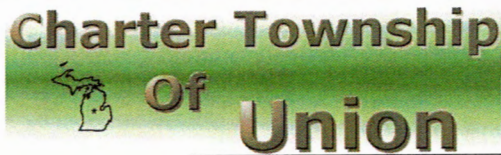
No interruptions of flow through manholes, wet wells, pump stations or any other portion of the plant or sanitary sewer system shall be allowed, if interruption of flow is required bypass pumping shall be utilized. All bypass pumping and method of bypass pumping shall be coordinated with and approval received from the Utility Foreman prior to the interruption.

SECTION 2: PRODUCTS

2.01 MATERIALS

- A. Infiltration Control mix:
 - 1. Minor Infiltration.
 - a. Cementitious Grout (De Neef Industrial Products)

A rapid-setting cementitious grout or chemical grout specifically formulated for leak control should be used to stop minor water infiltration. It should be mixed and applied according to the manufacturers recommendations and should meet the following minimum requirements.



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Compressive strength	ASTM C 109	1,800 psi @ ½ hr 4,000 psi @ 24 hrs 5,000 psi @ 7 days
Tensile strength	ASTM C 190	300 psi @ 7 days 350 psi @ 28 days

2. Very Active Infiltration

a. Chemical Grout (DC Neef Industrial Chemicals)

- 1). A chemical grout must be used for stopping very active infiltration, filling voids and should be mixed and applied according to manufacturer's recommendations. The cementitious grout should be volume stable having a minimum 1-day compressive strength of 50 psi and a 28-day compressive strength of 250 psi.
- 2). Chemical grouts can be used for stopping very active infiltration and should be mixed and applied per manufacturer's recommendations.

B. Patching and profiling mix:

1. Cementitious Compound (Strong Seal or equivalent product)

A quick setting cementitious material can be used to bring the substrate to profile by filling voids, cracks, missing mortar and other substrate defects. It should be mixed and applied according to the manufacturers recommendations and should meet the following minimum requirements.

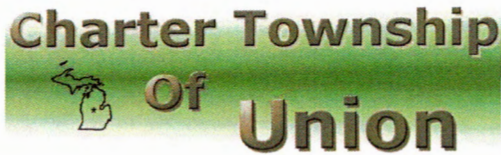
Compressive strength	ASTM C 109	1000 psi @ 1 hr 3500 psi @ 48 hrs 5000 psi @ 28 days
Tensile strength	ASTM C 307	200 psi @ 24 hrs 300 psi @ 7 days

C. Resin Based Liner:

1. The resin-based material shall be used to form the cured in place on structural enhanced monolithic liner covering all interior surfaces of the structure including benches and inverts of manholes. The finished liner shall be approved and conform to the minimum physical requirements listed below.

Cured in Place Liner

Compressive strength	ASTM D 695	21,000 psi min
Tensile strength	ASTM D 638	35,000 psi min
Flexural strength	ASTM D 790	35,000 psi min
Bond		Shall exceed tensile strength of substrate
Flexural modulus (initial)	ASTM D 790	1.500 MPsi min
Density		62.4 # / pcf



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- a. The finished structure shall be corrosion resistant to: Hydrogen Sulfide; 200% sulfuric Acid; 170% Nitric Acid; 5% Sodium Hydroxide; road salts for winter conditions as well as other common ingredients of the sanitary sewage environment.
- b. The wall of the liner will be structurally designed to withstand the hydraulic load generated by the groundwater table & restore structural integrity. The long term (50 yr.) value of the flexural modulus of elasticity will be a minimum of 500,000 psi and is an integral part of the engineering equation used to design the wall thickness of the structural liner.

For this reason, the value of the long-term flexural modulus of the proposed product will be certified by an independent, third-party testing lab and submitted with the design calculations for each individual structure.

Definition- Long term value will be identified as initial flexural modulus less the reduction in value caused by Creep over a fifty (50) year minimum period and verified by DMA testing.

2. Other Materials: Because of the advantages associated with rapid cure and infinite thickness capabilities, no resin-based materials shall be used to achieve the structural enhancement without prior approval of the Utility Foreman or Public Service Director.

SECTION 3: EXECUTION

3.01 INSPECTION

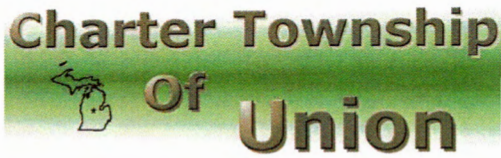
- A. Evaluation of Atmosphere: Prior to entering structures, an evaluation of the atmosphere will be conducted to determine the presence of toxic, flammable vapors or possible lack of oxygen. The evaluation shall be in accordance with local, state or federal safety regulations.

3.02 PREPARATION

- A. Place covers over all pipe openings to prevent extraneous material from entering the sewer system. All foreign material shall be removed from the structures wall and bench floor using a pressure water spray (minimum 2500 psi). The use of acid for cleaning purposes, no matter how dilute, will not be allowed. Loose or protruding brick, mortar and concrete shall be removed by using a mason hammer and chisel. All previous coating materials and rubber chimney seals must be removed as part of the preparation process and prior to installation of new liner. Fill any large voids with quick setting patch mix as described in Paragraph (2.01 IIA). The surface to be repaired must be clean and free of any loose materials.
- B. Minor leaks shall be stopped using the quick-setting specially formulated infiltration control mix (paragraph 2.01 IA) and shall be mixed and applied per manufacturer's recommendations. When severe infiltration is present, drilling may be required in order to pressure grout outside the structure using either a cementitious or chemical grout (paragraph 2.01 IB). Manufacturer's recommendations shall be followed when pressure grouting is required.

3.03 INSTALLATION/APPLICATION

- A. Application Temperatures: Application of liner shall not be made unless the ambient temperature inside the structure is 50 degrees or higher. All material specifications for temperature must be met.
- B. Bench, Invert Repair:



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1. The manhole bench must be sprayed/cured in place but depending on availability and future plans, some judgment consideration will have to be made regarding the invert. Important issue here is the necessity to ensure a monolithic system is achieved.
 2. After bypass pumping of the flow and thorough cleaning preparatory work has been achieved. The cured in place resin-based liner shall be applied to the invert, bench and wall areas in the same manner as specified for the liner application below. The cured in place liner shall be applied such that the entire structure receives a structurally enhanced monolithic liner.
 3. The finished invert surfaces shall be smooth, free of ridges and will be sloped in the direction of flow. Special care shall be used to ensure a smooth transition between the new manhole invert and intersecting pipeline inverts such that flow will not be impaired.
- C. Liner Application: The resin-based liner shall be cured in place to all surfaces by a trained technician who is experienced in the application of a sprayed or cured in place applied liner and has been certified by the manufacturer. Liner will be applied in accordance to all manufacturer and material specifications. Appropriate personal protection equipment shall be utilized but, in every case, when applying the liner in place, the sprayer and all other personnel in direct contact with the spray atmosphere, will always be protected by supplied air.

The minimum thickness of the material applied is to be no less than 250 mils (1/4") in order to support structural integrity. No other products such as cement or grouts may be used as part of the structural reinstatement, however, said products may be used as part of the repair process prior to sprayed application of the structure as specified in Section 2.

Application of the cured in place liner applied material must be completed in one (1) mobilization in order to minimize the disruption and cost of excessive bypassing, pipeline plugging, traffic control and all other support services.

The finished manhole must be returned to full service immediately after the cured in place liner application is complete.

- D. Curing: The structure should be allowed to cure for 24 hours and return to ambient temperature prior to any physical testing, including vacuum testing, and/or holiday/spark testing.

3.04 FIELD QUALITY CONTROL

- A. The following test/inspection will be performed by the Utility Foreman.
1. Visually verify the absence of leaks from infiltration.
- B. The following tests shall be performed by the Contractor.
1. Vacuum Test: A vacuum test conforming to the requirements of ASTM C1244 shall be performed for every spray lined manhole or circular structure where practical.
 2. Holiday/Spark Test: A holiday/spark test conforming to the requirements of ASTM D4787 & D-5162 shall be performed for every cured in place manhole or circular structure where practical.



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858

Phone (989) 772600 ext. 224
Fax (989) 773 1988
E Mail ksmith@uniontownshipmi.com

Bids Due:

September 15, 2021 @ 10:30 a.m.

Address Sealed Bids to:

Charter Township of Union
Attn: Kim Smith – Public Service Director
5228 South Isabella Road
Mt. Pleasant MI 48858

Inquiry:

Kim Smith – Public Service Director
ksmith@uniontownshipmi.com (989)772-4600 ext. 224
John Bebow – Utility Foreman
jbebow@uniontownshipmi.com

**The Charter Township of Union reserves the right to accept or reject all bids that are received.
No Bidder may withdraw their Bid within sixty (60) days after the actual date of Bid opening.**

**2021 SANITARY SEWER MANHOLE REHABILITATION –
BID SHEET**

Proposal of Plummer's Environmental Services, Inc.

(Hereinafter called "Bidder"), organized and existing under the Laws of the State of Michigan, doing business as Corporation,*
to Charter Township of Union, Isabella County MI.

In compliance with your Request for Bids, Bidder hereby proposes to perform Work for the rehabilitation of Nineteen (19) Sanitary Sewer Manholes in strict accordance with the Contract Documents within the time set forth therein and at the prices stated below.

By submission of this Bid, each Bidder certifies, and in the case of a joint Bid, each party thereto certifies as to his own organization that this Bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bidder hereby agrees to commence Work under this Contract on or before a date to be specified in the Notice to Proceed and to substantially complete the Project within 45 consecutive calendar days thereafter, and fully complete Project (including restoration, punch list items, and close-out documents) within 30 days of Substantial Completion. Bidder further agrees to pay as liquidated damages, the sum of \$500.00 for each consecutive calendar day thereafter.

Bidder hereby agrees to also pay for the actual costs to the Owner for Resident Project Representative and Project management services and all additional inspection costs beyond the Contract completion date established by the "Notice to Proceed".

Bidder agrees to perform all Work in the Contract Documents for the following prices:

Manhole Number	Rehabilitation Description	Unit		Estimated Depth Contractor Responsible for field verification of depth	Item Cost
MH # 140	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	16.81	\$9,581.00
MH# 141	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	12.77	\$7,267.00
MH# 142	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	10.86	\$6,190.00
MH# 143	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	9.93	\$5,700.00
MH# 144	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	10.61	\$6,127.00
MH# 145	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	10.23	\$5,842.00
MH# 146	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	9.77	\$5,600.00
MH# 147	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	10.67	\$6,100.00
MH# 148	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	11.05	\$6,299.00
MH# 149	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	11.22	\$6,410.00
MH# 150	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Concourse Drive	11.03	\$6,270.00

Manhole Number	Rehabilitation Description	Unit	Contractor	Estimated Depth Responsible for field verification of depth	Item Cost
MH# 1	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	BillBrael Drive	6' 4"	\$4,605.00
MH# 2	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	BillBrael Drive	8'	\$5,360.00
MH# 3	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	BillBrael Drive	11' 6"	\$7,355.00
MH# 4	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	BillBrael Drive	6' 6"	\$4,505.00
MH# 1	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Meadowlark Drive	14' 10"	\$9,207.00
MH# 2	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Meadowlark Drive	9'	\$5,630.00
MH# 3	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Meadowlark Drive	8'	\$5,060.00
MH# 4	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Meadowlark Drive	10' 6"	\$5,985.00
	Total	19			\$119,093.00

One Hundred Nineteen Thousand Ninety Three Dollars.

Amount of Bid in Words

Seal if Bid is by a Corporation

ATTEST:

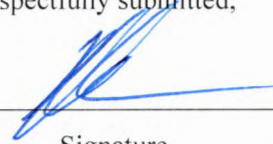


Jeff Root - Project Manager

General Manager

Title

Respectfully submitted,



Signature

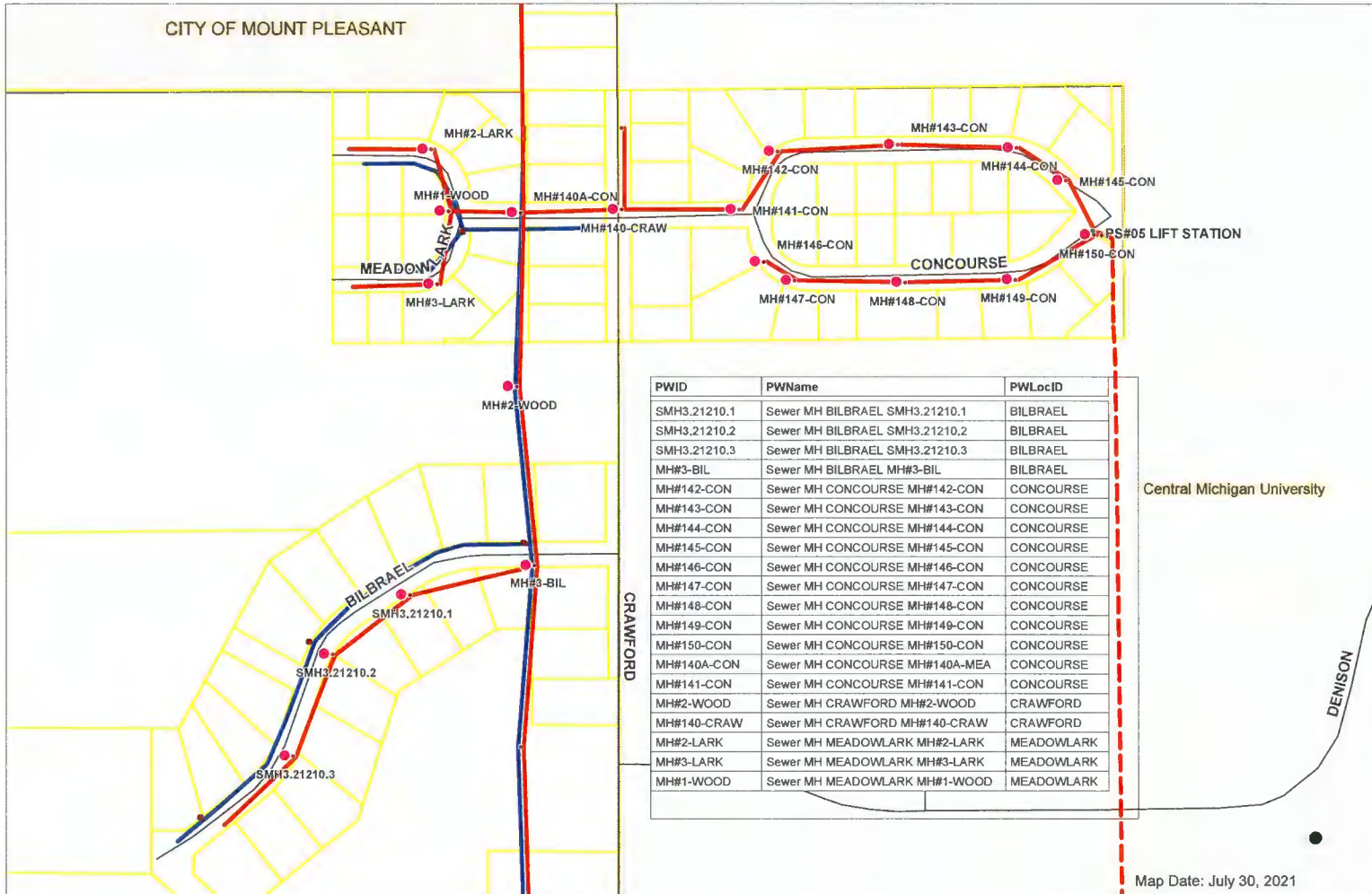
Plummer's Environmental Services, Inc.

Name of Contractor

10075 Sedroc Industrial Dr. Byron Center, MI 49315

Address

Union Township 2021 Proposed Sanitary Manhole Rehabilitation



Utilities Legend

- Sewer Valve
- Sewer Air Valve
- Manhole
- Lift Station
- Sewer Lead
- Water Curbstop Box
- Hydrant
- Pressure Reducing Valve
- Water Tank or Tower
- Water Valve
- Production Well
- Water Main
- Water Lateral
- Sewer Gravity Main
- Sewer Force Main
- Sewer Lateral
- ++++ Railroad
- Township Parcel
- Proposed Manhole Rehab

Map Date: July 30, 2021

American Institute of Architects

AIA Document A310

Bid Bond


KNOW ALL MEN BY THESE PRESENTS, that we, Plummer's Environmental Services, Inc., as Principal, hereinafter called the Principal, and Employers Mutual Casualty Company, duly organized under the laws of the State of Iowa, as Surety, hereinafter called the Surety, is held and firmly bound unto Charter Township of Union as Obligee, in the sum of Five Percent of the Bid Amount (5% of the Bid Amount), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for: 2021 Sanitary Sewer Manhole Rehabilitation

Bid Date: September 15, 2021

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and materials furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 13th day of September, A.D. 2021 .



(Witness)

Plummer's Environmental Services, Inc.

(Principal)

By: 

Dave Van Dyken

(Seal)

General Manager

(Title)

V Jean Nolf
Digitally signed by: V Jean Nolf
DN: CN = V Jean Nolf email = jean.nolf@bulleninsurance.com C = AD
Date: 2021.09.13 14:52:58 -04'00'
V Jean Nolf (Witness)

Employers Mutual Casualty Company

(Surety)

Laura J.
Northouse

Laura J. Northouse

Digitally signed by: Laura J. Northouse
DN: CN = Laura J. Northouse email = laura.northouse@bulleninsurance.com C = US O = State of Michigan
Date: 2021.09.13 14:51:58 -04'00'

(Seal)

Attorney -in-Fact



P.O. Box 712 • Des Moines, Iowa 50306-0712

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, that:

- 1. Employers Mutual Casualty Company, an Iowa Corporation
- 2. EMCASCO Insurance Company, an Iowa Corporation
- 3. Union Insurance Company of Providence, an Iowa Corporation
- 4. Illinois EMCASCO Insurance Company, an Iowa Corporation
- 5. Dakota Fire Insurance Company, a North Dakota Corporation
- 6. EMC Property & Casualty Company, an Iowa Corporation

hereinafter referred to severally as "Company" and collectively as "Companies", each does, by these presents, make, constitute and appoint:

LAURA J. NORTHOUSE

its true and lawful attorney-in-fact, with full power and authority conferred to sign, seal, and execute the Bid Bond

In an amount not exceeding Ten Million Dollars\$10,000,000.00

and to bind each Company thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of each such Company, and all of the acts of said attorney pursuant to the authority hereby given are hereby ratified and confirmed.

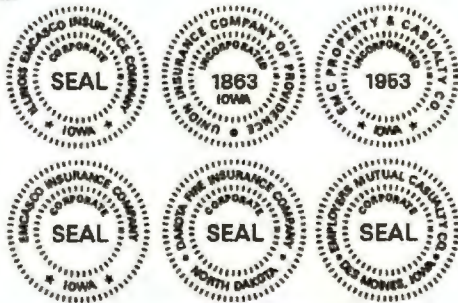
AUTHORITY FOR POWER OF ATTORNEY

This Power-of-Attorney is made and executed pursuant to and by the authority of the following resolution of the Boards of Directors of each of the Companies at the first regularly scheduled meeting of each company duly called and held in 1999:

RESOLVED: The President and Chief Executive Officer, any Vice President, the Treasurer and the Secretary of Employers Mutual Casualty Company shall have power and authority to (1) appoint attorneys-in-fact and authorize them to execute on behalf of each Company and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof; and (2) to remove any such attorney-in-fact at any time and revoke the power and authority given to him or her. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power-of-attorney issued to them, to execute and deliver on behalf of the Company, and to attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and any such instrument executed by any such attorney-in-fact shall be fully and in all respects binding upon the Company. Certification as to the validity of any power-of-attorney authorized herein made by an officer of Employers Mutual Casualty Company shall be fully and in all respects binding upon this Company. The facsimile or mechanically reproduced signature of such officer, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power-of-attorney of the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS THEREOF, the Companies have caused these presents to be signed for each by their officers as shown, and the Corporate seals to be hereto affixed this 30th day of March, 2020.

Seals



Scott R. Jean

Scott R. Jean, President & CEO
of Company 1; Chairman, President
& CEO of Companies 2, 3, 4, 5 & 6

Todd Stroth

Todd Stroth, Executive Vice President
Chief Legal Officer & Secretary of
Companies 1, 2, 3, 4, 5 & 6

On this 30th day of March, 2020 before me a Notary Public in and for the State of Iowa, personally appeared Scott R. Jean and Todd Stroth, who, being by me duly sworn, did say that they are, and are known to me to be the CEO, Chairman, President, Executive Vice President, Chief Legal Officer and/or Secretary, respectively, of each of the Companies above; that the seals affixed to this instrument are the seals of said corporations; that said instrument was signed and sealed on behalf of each of the Companies by authority of their respective Boards of Directors; and that the said Scott R. Jean and Todd Stroth, as such officers, acknowledged the execution of said instrument to be their voluntary act and deed, and the voluntary act and deed of each of the Companies.

My Commission Expires October 10, 2022.

Kathy Loveridge

Notary Public in and for the State of Iowa



CERTIFICATE

I, James D. Clough, Vice President of the Companies, do hereby certify that the foregoing resolution of the Boards of Directors by each of the Companies, and this Power of Attorney issued pursuant thereto on 30th day of March, 2020, are true and correct and are still in full force and effect.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 13th day of September, 2021.

J D Clough

Vice President

REQUEST FOR TOWNSHIP BOARD ACTION

To: Mark Stuhldreher – Township Manager **DATE:** September 27, 2021

FROM: Kim Smith – Public Service Director **DATE FOR BOARD CONSIDERATION:** October 13, 2021

ACTION REQUESTED: Approval of the purchase of a 2021 six-inch (6”) trailer mounted centrifugal sanitary sewer bypass/trash pump from Mersino Dewatering Global Pump in the amount of \$39,600.00.

Current Action Emergency

Funds Budgeted: If Yes Account # 590-536-977.000 & 590-540-977.000 No N/A

Finance Approval _____ *MDS* _____

BACKGROUND INFORMATION

The Charter Township of Union currently owns one portable sanitary sewer trailer mounted centrifugal (trash) pump. The pump is a critical piece of equipment that is used during emergency situations to bypass pump the township’s nineteen sanitary sewer pump stations, bypass pump at the waste water treatment plant, and to respond to sanitary sewer gravity and force main breaks. Typically bypass pumping is needed due to several different factors. These include pump station rehabilitation, pump station malfunctioning, power loss at a pump station, a broken gravity or sewer force main or a combination of these factors.

At a sanitary sewer pump station, a centrifugal bypass/trash pump is used to connect to the stations existing bypass piping and temporarily operate and pump the sewage at the station. In addition, the centrifugal pump is used at the Township’s Waste Water Treatment Plant to bypass the existing screw pumps if maintenance is required or an emergency occurs in which the screw pumps are non-operational or cannot provide enough pumping capabilities to respond to increased flows. The operational uses/capabilities between a centrifugal pump and vactor equipment differ. Vactor equipment is used primarily for cleaning and maintenance in the collection system and during emergencies to remove sewage from break locations. Centrifugal pumps are used in place of or in conjunction with pump station pumps during emergency situations to continue to operate the pump station.

The FY2021 Approved Sanitary Sewer Budget includes funding to purchase an additional pump for use in the sanitary sewer collection system and at the waste water treatment plant. The purchase was competitively bid and a public bid opening was held. There were three responsive bidders for this purchase. The bids are as follows:

Supplier	Bid Amount
Mersino Global Pump	\$39,600.00
Hydro Engineering	\$44,000.00
Technology International Inc.	\$41,060.00

SCOPE OF SERVICES

One-time purchase of a six-inch (6") trailer mounted centrifugal sanitary sewer bypass/trash pump from Mersino Dewatering Global Pump in the amount of \$39,600.00.

JUSTIFICATION

This equipment is critical to the sanitary sewer collection system and waste water treatment plant operations and is used during emergency situations to provide bypass pumping at our sanitary sewer facilities. The use and reliability of this equipment is essential to provide continuous service, avoid sewer overflows, and basement backups.

During emergency situations such as power outages and high flow events township staff transports our one pump from station to station to either operate or assist with the pumping of sanitary sewer. Often when these emergency situations occur more than one of the Township's nineteen pump stations is without power or struggling to keep up with high flows. The addition of another centrifugal pump will increase staff's ability to respond to emergencies, and give the township additional critical bypass pumping capabilities during emergencies.

The recommended bid has been reviewed by the Public Service Department and found to be in accordance to the Standards and Conditions provided in the pump purchase specifications. We recommend that the pump be purchased from Mersino Dewatering Global Pump in the amount of \$39,600.00 for the following factors:

- Suppliers ability to provide equipment specified
- Favorable recommendations by suppliers existing customers regarding equipment and service
- Favorable on-site demo of product (demo conducted at waste water treatment plant)
- Cost

PROJECT IMPROVEMENTS

The following Board of Trustees goals are addressed with this request (from Policy 1.0: Global Ends)

1. Community well-being and common good
2. Safety
3. Health

COSTS

\$39,600.00

PROJECT FUNDING

Funds are included in the FY2021 Approved Sanitary Sewer Budget for the purchase of a six-inch (6") trailer mounted centrifugal sanitary sewer bypass/trash pump in the following account numbers:

- 590-536-977.000
- 590-540-977.000

PROJECT TIME TABLE

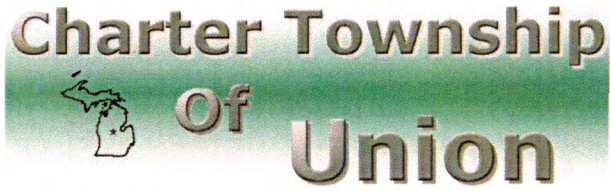
Estimated Delivery 120 days after award of bid

RESOLUTION

Authorization is hereby given to purchase a 2021 six-inch (6") trailer mounted centrifugal sanitary sewer bypass/trash pump from Mersino Global Pump in the amount of \$39,600.00.

Resolved by _____ Seconded by _____

- Yes:
- No:
- Absent:



5228 South Isabella Road
Mt. Pleasant, MI 48858
989-772-4600 ext. 224 (phone)
989-773-1988 (fax)
ksmith@uniontownshipmi.com

Bid Tabulation Sheet

Project: 6" Centrifugal Pump Purchase

Due Date: September 15, 2021 @ 10:00 a.m.

Bidder	Bid Bond	Amount
Mersino / Global Pump		\$39,600.00
Hydro Engineering		\$44,000.00
Technology International Inc.		\$41,060.00

Kimberly Smith _____ 9-15-2021 _____

John Bebus _____ 9-15-2021 _____

Sep. 9, 2021

Township of Union

Solicitation: 2021 Six-Inch (6") Trailer Mounted Centrifugal Trash Pump Proposal

Solicitation due date: Sep. 15, 2021

To whom this may concern,

Thank you for the opportunity to submit pricing for the needed 6" trailer mounted centrifugal trash pump. I have included documents which outline our product. The 6" Global pump will not only meet but it will exceed the requirements outlined in the specification. Please note the attached pump curve where our pump has a best efficiency of 80%. You can see the benefits of this efficiency by utilizing the document "Impeller Impact on Pump Efficiency".

Below you will find our price with the Global Pump model and accessories we are bidding to meet specification. Feel free to reach out to myself or Mike Cobleigh if you have any questions or need any other assistance. I have included Mike's contact info below.

Mike Cobleigh
Project Manager
Mobile # 810-240-9326

Proposal:

- 1 - 6GSTAPIKT4T10P (6GST, Auto Prime, Kubota 74HP T4, Trailer, Open unit)
- 2 - 6" flange x CAM-lock fittings
- 1 - Hose rack
- 2 - 6" x 10' suction hoses with CAM lock fittings
- 1 - Freight

Total Net price = \$39,600.00 ea.

I greatly appreciate your time and look forward to doing business with you in the near future.

Thank you,



Allan Schmitz
Municipal Inside Sales Manager
allan.schmitz@globalpump.com
Mobil: 586-524-9575

ADVERTISEMENT FOR BIDS

Charter Township of Union

2010 South Lincoln Road

Mt. Pleasant, MI 48858

Separate sealed Bids for the purchase of One – Six-Inch (6") Centrifugal Trash Pump will be received by the Charter Township of Union at the Charter Township of Union Public Services Office located at, 5228 South Isabella Road, Mt. Pleasant, Michigan 48858 until **10:00 AM** Local Time, Wednesday, **September 15, 2021**, and then at said location publicly opened and read aloud.

The Information for Bidders, may be examined/obtained on the Charter Township of Union website as follows:

www.uniontownshipmi.com/utilities/rfp

Bids received after the above date and time will not be considered. Fax transmittals and e-mailed Bids will not be accepted.

The Owner reserves the right to waive any informality or to reject any or all Bids.

No Bidder may withdraw their Bid within 90 days after the actual date of Bid opening.

Charter Township of Union
Public Services Department



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
989-772-4600 ext. 223 & 224

Notice to Bidders

2021 6" 2021 Six-Inch (6") Trailer Mounted Centrifugal Trash Pump Purchase

The Charter Township of Union is accepting sealed bids for the purchase of one (1) 2021 6" Trailer Mounted Centrifugal Trash Pump.

Bids will be accepted until **September 15, 2021**, at, **10:00 am.**, at which time they will be opened and read aloud at the Isabella Treatment Facility located at 5228 South Isabella Road Mt. Pleasant, MI 48858.

To view and download complete specifications, visit the Charter Township of Union website at www.uniontownshipmi.com/utilities/rfp

Bids are solicited on a lump sum basis and no bid deposit or bond is required with this bid.

All bids are to be sealed and clearly marked "Bid for "2021 Six-Inch (6") Trailer Mounted Centrifugal Trash Pump".

The Charter Township of Union reserves the right to accept or reject any and all bids and to select the bid considered most advantageous to the Charter Township of Union.



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
989-772-4600 ext. 223 & 224

2021 Six-Inch (6") Trailer Mounted Centrifugal Trash Pump Information for Bidders

1. Proposals

Proposals must be made upon the forms provided, therefore, with the Bid amount both written and shown in figures, and all other data required submitted.

The Proposal, with all Proposal Documents, must be enclosed in a sealed envelope marked as specified in the Notice to Bidders for such Bid and clearly indicating the name and address of the Bidder and must be received by the Public Service Director, Union Township Hall, 5228 South Isabella Road, Mt. Pleasant Michigan 48858, no later than the time and date specified in the Notice to Bidders. At such specified time, Proposals shall be publicly opened and read aloud.

2. Basis of Proposals

Proposals are solicited on the basis of unit price(s) and/or lump sum(s), as specified on the Proposal form.

The Charter Township of Union, (also referred to as "Owner"), reserves the right to accept any Bid, to reject any or all Bids, and to waive any irregularities in the Bids, and to select the Bid considered most advantageous to the Township.

3. Comparison of Bids

In comparing Bids, consideration shall be given to the time proposed for completion of the Contract, qualifications of Bidder, delivery time, price differentials, alternate Proposals for the alternate items listed in the Proposal (if applicable), and any other pertinent factors.

The Owner reserves the right to make an award to the Bidder whose Proposal is deemed to be in the best interest of the Owner.

4. Time

Time is of the essence in the performance of the Contract, and each Bidder, by submitting a Proposal, certifies his/her acceptance of the time allowed by the Contract for the delivery of the equipment.

5. Indemnification

The Contractor/Vendor shall save and hold harmless the Township and its employees from and against all claims, damages, losses, or expenses, including attorney's fees, arising out of or resulting from the performance of the work; provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent or willful act of omission of the



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
989-772-4600 ext. 223 & 224

Contractor, subcontractor, employee, or anyone under their direction. The Contractor shall at his/her own expense, defend any and all such actions and shall pay all attorney's fees, costs, and expenses pertaining thereto.

6. Interpretation of Documents

If any Bidder is in doubt as to the true meaning of any part of the Plans, Specifications or any Contract Document, he/she may submit to the Owner a written request for an interpretation thereof. Any interpretation made in response to such query shall be made only by Addendum, duly issued, and a copy of such Addendum shall be posted on our website no later than five days prior to bid due date. The Owner shall not be responsible for any other explanation or interpretation of the Contract Documents. All addendum will be posted on the Township's website at:

[http://www.uniontownshipmi.com/Departments/PublicServicesDepartment/UtilityDepartment/RequestforProposals\(RFP\).aspx](http://www.uniontownshipmi.com/Departments/PublicServicesDepartment/UtilityDepartment/RequestforProposals(RFP).aspx)

7. Execution of Bid Proposal

A Bid Proposal must be signed by the individual making it and who is duly authorized by the vendor to submit such proposal/bid on their behalf.

A Bid Proposal, which is signed by a partnership, shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there should be attached to the Bid, a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the partnership and such Power of Attorney shall be signed by all partners of the partnership.

A Bid Proposal, which is signed for a corporation should have the correct corporate name thereof and the signature of the President, or other authorized officer(s)/individual of the corporation, manually written below the corporate name and on the line indicating "By:

Mersino Dewatering / Allan Schmitz ."

8. Delivery

The successful Bidder shall deliver equipment and/or materials as specified to the Charter Township of Union, within **120 days** of acceptance of bid to 4511 E River Road Mt. Pleasant, MI 48858, or as specified in the proposal. The proposal amount should include delivery F.O.B to Mt. Pleasant. All equipment, literature, manuals, warranty papers, and any other items listed in the specifications of the equipment or materials, must be delivered before payment in accordance with this contract. **If bidder is not able to meet the time specified in the bid documents for delivery, then a detailed schedule for delivery must accompany the bid proposal.**



Department of Public Services
 5228 South Isabella Road
 Mt. Pleasant, MI 48858
 989-772-4600 ext. 223 & 224

2021 Six-Inch (6") Trailer Mounted Centrifugal Trash Pump Proposal

TO: Office of the Public Service Director
 Charter Township of Union
 5228 South Isabella Road
 Mt. Pleasant, MI 48858

BID DATE: September 15, 2021
TIME: 10:00 a.m.

In accordance with the specifications and other bid requirements heretofore provided, the undersigned agrees to provide the below listed bid items at the price(s) set forth below.

This is a firm bid and not subject to withdrawal or change for a period of sixty (90) days.

<u>QTY</u>	<u>BID ITEM</u>	<u>TOTAL</u>
1	2021 six-inch (6") Centrifugal Trailer Mounted Trash Pump Per bid specifications	1 each \$ 39,600.00
		TOTAL \$39,600.00
		(Figures)

Thirty Nine Thousand Six Hundred _____
 (Written) _____ and 00 /100 Dollars.

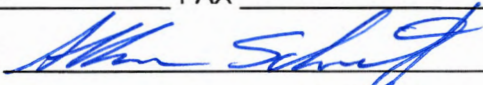
Respectfully Submitted,

COMPANY: Mersino Dewatering DATE Aug. 31, 2021

ADDRESS: 10162 Coldwater

CITY Davison STATE MI ZIP 48423

TELEPHONE 810-653-4828 FAX 810-658-0632

AUTHORIZED SIGNATURE 

PRINT OR TYPE NAME & TITLE Allan Schmitz / Municipal Inside Sales Manager

EMAIL sales@mersino.com or allan.schmitz@globalpump.com



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
989-772-4600 ext. 223 & 224

2021 Six-Inch (6") Trailer Mounted Centrifugal Trash Pump Specifications

Bidders are required to complete the certification at the end of this section of the bid by signing in the provided space. This section verifies that the unit complies with the listed specifications. Explanations for non-compliance must be provided on a separate sheet. Failure to do so will deem the proposal incomplete and will not be considered. Written questions regarding these specifications may be directed to Kim Smith, Public Service Director via email to ksmith@uniontownshipmi.com.

2021 6 Inch (6") Centrifugal Trash Pump Minimum Specifications:

Model Year: 2021

Engine:

Fuel Type Diesel

Auto Start Capability

Minimum Full Load Operating Time of 30 hours

Pump

Type Centrifugal

Size 6" X 6" NPT – Female Discharge elbow provided

Auto Prime Capability

Float Controls

Maximum Solids Handling 3" Spherical Solid

Replaceable Wear Plate

Pump must be capable of providing 750 GPM at a Total Head of 120 feet

Unit shall be mounted on DOT approved trailer. (Lighting, Tires, and Electric Brakes)

Hose Racks

Trailer shall have ball hitch capable of accepting a 2 5/16" ball

Charter Township of Union Sourcewell Account Number:102232

No bidder may withdraw their bid within 90 days after the actual date of bid opening. This section must be completed and returned with the bid proposal to verify that the unit proposed meets or exceeds the specifications listed above.

Allan Schmitz / Municipal Inside Sales Manager

Aug. 31, 2021

Specification Verification (name and title)

Date

GLOBAL PUMP®

A MERSINO COMPANY

6GST GLOBAL STANDARD TRASH



Global Pump® Standard Trash pumps are specifically designed to effectively handle a wide range of liquids from water to sewage and sludge that can contain solids and other material.

Global Pump Standard Trash pumps provide a dependable, highly efficient solution. The model 6GST is capable of achieving maximum flows of 3,000 gpm (681 m³/h) and maximum total head of 202' (61.6 m) while handling solids up to 3" (76.2 mm) in diameter.

The standard 6GST is powered by a water-cooled, 4-cylinder diesel engine. Alternative drives are available including natural gas as well as electric motors.

FEATURES

Global Pump's rugged, heavy duty pumps are engineered specifically for portable application

Non-return valve uses only a single moving part to allow full flow with minimal restriction

Standard engine control panel provides preset emergency shutdown protection and allows the addition of automatic level control

Fully guarded coupling

Pump casings are hydrostatically tested to 50 psig (345 kPa) above the peak casing design pressure

Highway trailer with integral fuel cell/chassis, lights, fenders, tie downs, lifting bail, front and rear jacks. Trailer brakes can be offered as required

OPTIONS

Available with a variety of priming systems, including Global's Auto Prime® automatic priming system (compressor-fed venturi priming) or a diaphragm priming system

Mechanical seal with glycol (biodegradable optional) quench allows the pump to start and run dry

Global Pump's environmental box separates and silences air exhaust and returns liquid to the pump suction.

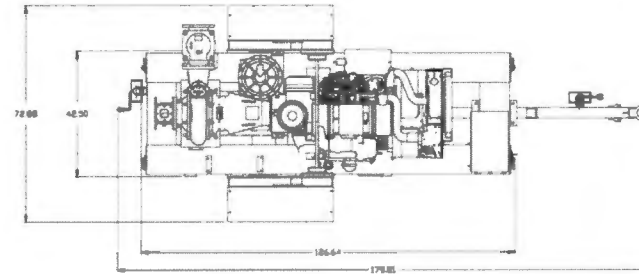
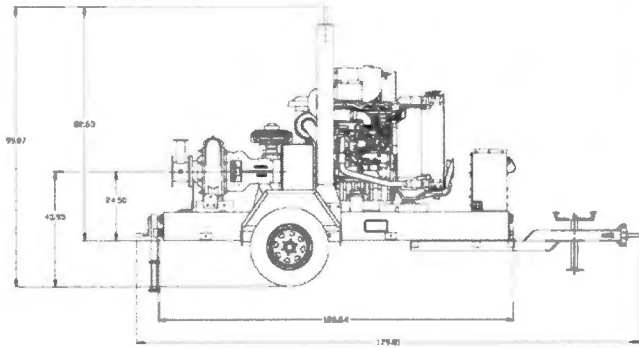
Fuel cubes for extended run times and/or remote location as required

Sound attenuated enclosure options

Skid-mounted formats with tie downs, lifting bail, and fork pockets

Hose racks, accessory containers and other custom features available as required

Wide range of suction and discharge fittings including Global Pump's own "QD" Quick Disconnect fittings and accessories

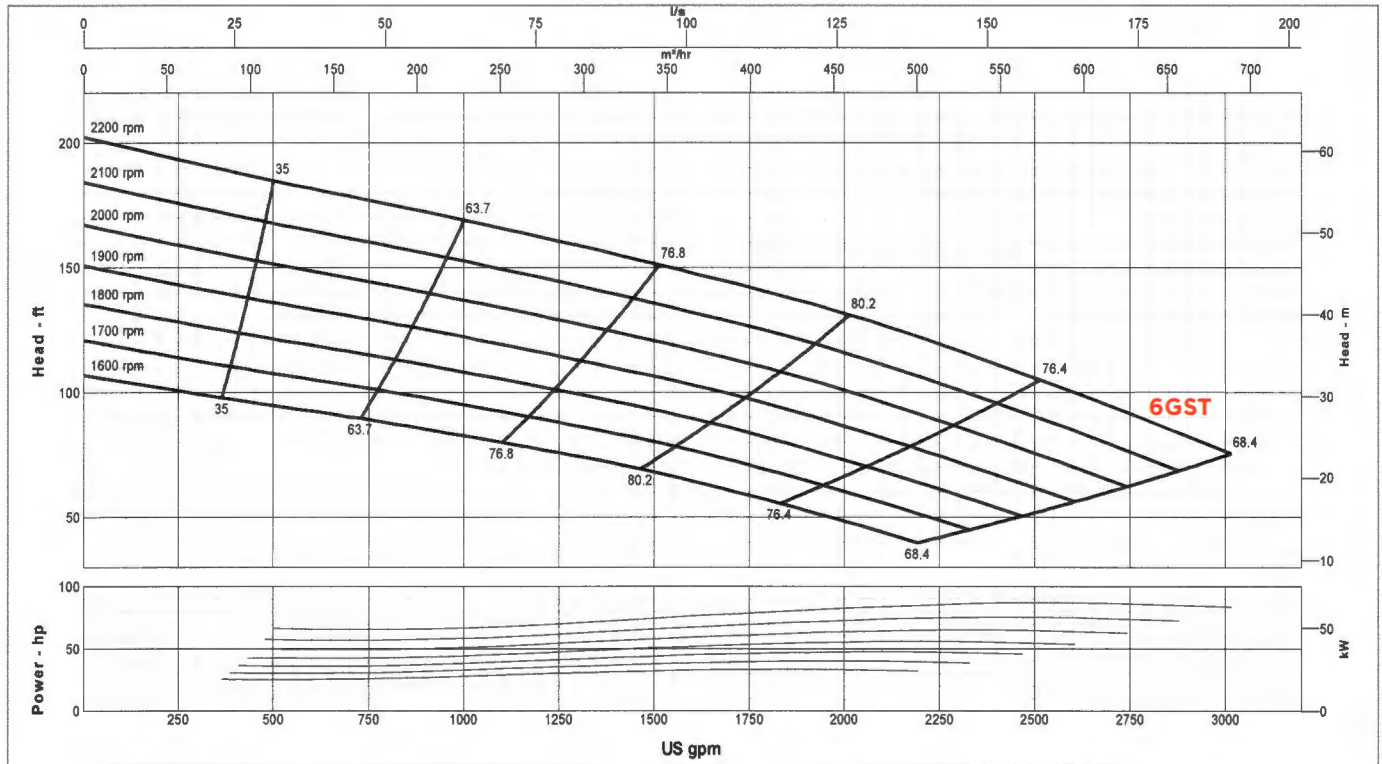


SPECIFICATIONS

Connections	6" (150 mm) ANSI Flanges
Max Pump Speed	2,200 rpm
Max Flow	3,000 gpm (681 m ³ /h)
Max Head	202' (61.6 m)
Max Static Priming Lift	28' (8.5 m)
Temperature Limit	160° F (70° C)
Solids Handling Capability	3" (76.2 mm)
Max Casing Pressure	125 psig (862 kPa)
Fuel Cell	109 gallons (413 liters)
Dry Weight	4,500 lbs

PUMP MATERIAL

Casing	Cast Iron (CD4MCu is an option)
Impeller	Cast Iron (CD4MCu is an option)
Bearing Housing	Cast Iron
Bearing Lubrication	Grease
Shaft/Shaft Sleeve	Steel/FNC Treated Steel
Seal	Silicon Carbide on Silicon Carbide
Chassis/Fuel Cell	Steel
Non-Return Valve	Nitrile Fitted Cast Iron



GLOBAL PUMP
 10162 East Coldwater Road, Davison, MI 48423
 Tel: 810.653.4828 Fax: 810.658.0632
1.866.360.PUMP www.globalpump.com

Company: Union Township
 Name: 6" Centrifugal Trash Pump
 Date: 09/08/2021

GLOBAL PUMP
866-360-PUMP
 www.globalpump.com

Pump:

Size: 6GST
 Type: TRASH
 Synchron Speed: Adjustable
 Dia: 10 in
 Curve: T500104-2
 Impeller: 82
 Specific Speeds: Ns: 2450
 Nss: 13280

Dimensions:
 Suction: 6 in
 Discharge: 6 in

Fluid:

Name: Water
 SG: 1
 Density: 62.4 lb/ft³
 Viscosity: 1.1 cP
 Temperature: 60 °F
 Vapor Pressure: 0.256 psi a
 Atm Pressure: 14.7 psi a
 Margin Ratio: 1

Pump Limits:

Temperature: 160 °F
 Wkg Pressure: 150 psi g
 Sphere Size: 3 in
 Power: 150 hp

Motor:

Consult GLOBAL PUMP to select a motor for this pump.

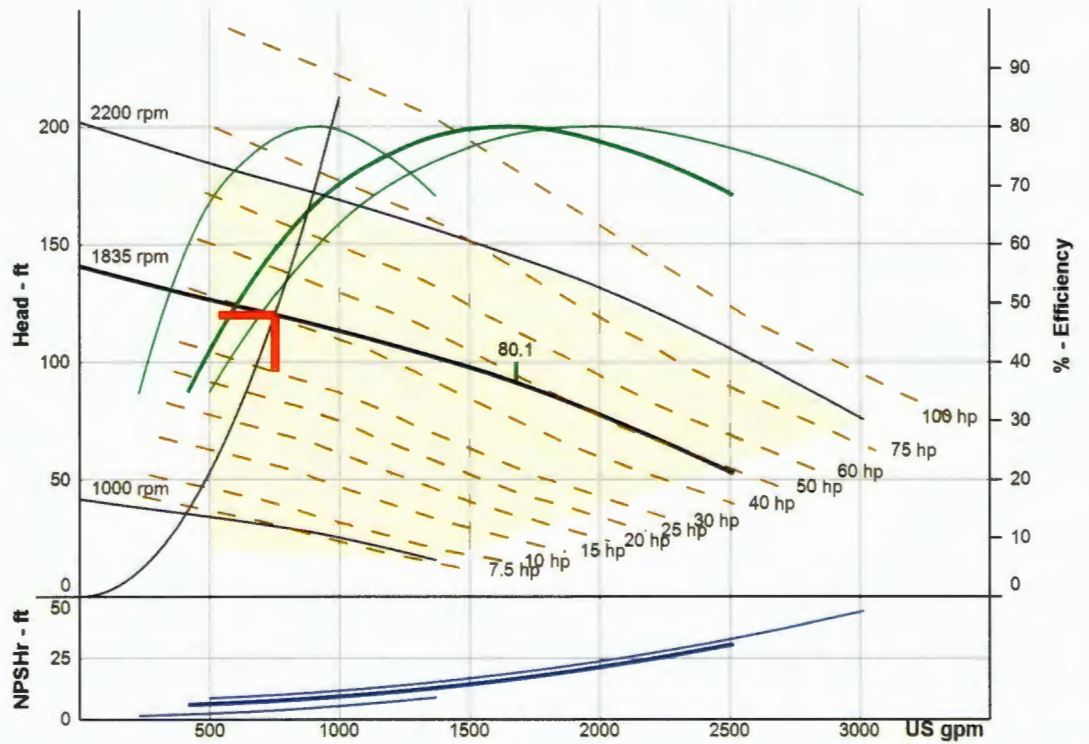
Search Criteria:

Flow: 750 US gpm
 Head: 120 ft
 Near Miss: —
 Static Head: 0 ft

Pump Selection Warnings:

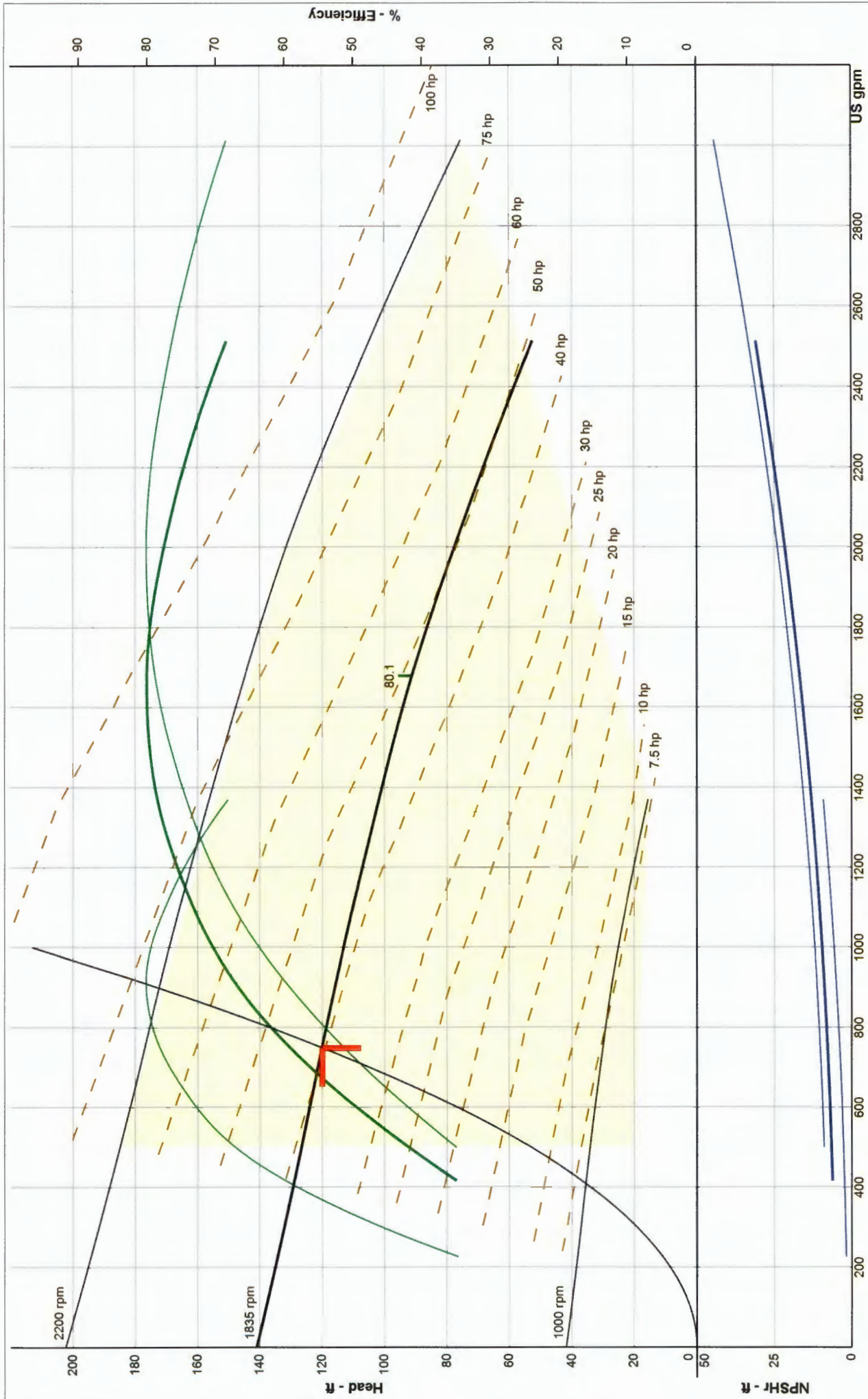
None

--- Duty Point ---	
Flow:	750 US gpm
Head:	120 ft
Eff:	57.9%
Power:	38.9 hp
NPSHr:	7.9 ft
Speed:	1835 rpm
--- Design Curve ---	
Shutoff Head:	141 ft
Shutoff dP:	61.1 psi
Min Flow:	— US gpm
BEP:	80.1% @ 1679 US gpm
NOL Power:	50.7 hp @ 2097 US gpm
--- Max Curve ---	
Max Power:	87.2 hp @ 2514 US gpm



Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
900	1835	116	65.7	39.7	8.87
750	1835	120	57.9	38.9	7.9
600	1835	124	47.6	38.8	7.16
450	1835	128	37.3	38.8	6.41
300	1835	—	—	—	—



Company: Union Township
Name: 6" Centrifugal Trash Pump
Date: 09/08/2021
GLOBAL PUMP
Catalog: GLOBAL PUMP.60.pmp (1317), Vers 1
TRASH - Adjustable
Design Point: 750 US gpm, 120 ft
Static Head: 0 ft
Size: 6GST
Speed: 1835 rpm
Dia: 10 in
Curve: T500104-2
Impeller: 82
866-360-PUMP
www.globalpump.com

GLOBAL PUMP®

A MERSINO COMPANY

GLOBAL CONTROL BOX



ADVANCED PUMP CONTROL

A wide range of operating modes for both manual and auto operation to match the pumping requirements of the application.

DESCRIPTION
GENERAL
<ul style="list-style-type: none"> • Full Display • Fault Code Reader and Alarm Log • Service Alerts • Fuel Level Available • Alarm Horn • Monitor Suction & Discharge Pressure
AUTO START OPERATION MODES
<ul style="list-style-type: none"> • FLOATS (Single and Dual Float) • PRESSURE (Start, Stop and Maintain Pressure) • LEVEL (Start, Stop and Maintain Level) • INTEGRATED SCHEDULER (Run Days/Times)
AUTO THROTTLE OPERATION
<ul style="list-style-type: none"> • Warm Up Speed & Period • Prime Speed & Period • Operating Speed • Cool Down Speed & Period • Pressure and Level Maintain
FAILSAFE FLOAT BACKUP
<ul style="list-style-type: none"> • Float backup available in case of pressure or level transducer failure

PUMP CONTROL TECHNOLOGY

Controls, Incorporated brings its advanced engine control technology and reputation for durability to provide advanced pump control with simple and intuitive operation for Global Pump.

DURABILITY

The water tight IP67 rated display and control module is mounted in a NEMA 4X rated panel providing a two layer construction for maximum protection.

EASY-TO-READ DISPLAY

An advanced OLED display provides superior visibility in all lighting conditions while providing an extended temperature down to -40°C/-40°F.



Suction and discharge pressure monitoring is also available.

AUTO START OPERATION

A variety of auto start and auto throttle modes are available, providing a wide range of pump control options.

Auto Start/Stop

- Floats, Level, Pressure, Real-Time Clock Scheduler

Auto Throttle

- Warm Up, Prime, Operating and Cool Down Speeds
- Auto Throttle to Maintain Level or Pressure

Failsafe Float Backup

- Float backup for pressure and level applications

THROTTLE CONTROL

Minimum speed, maximum speed and rate of acceleration are selectable to assure the pump always operates in the correct speed range.

FAULT CODES

Engine alarm codes are displayed along with easy-to-read messages and corresponding yellow or red lamp illumination.

COMMUNICATIONS

Panel communications for simple integration with external devices, SCADA, remote monitoring and telemetry systems.



GLOBAL PUMP

10162 East Coldwater Road, Davison, MI 48423

Tel: 810.653.4828 Fax: 810.658.0632

1.866.360.PUMP

www.globalpump.com

INDUSTRIAL DIESEL ENGINE

V3800-CR-TE4B V3800-TIE4B

KUBOTA V3 SERIES (4-cylinder)

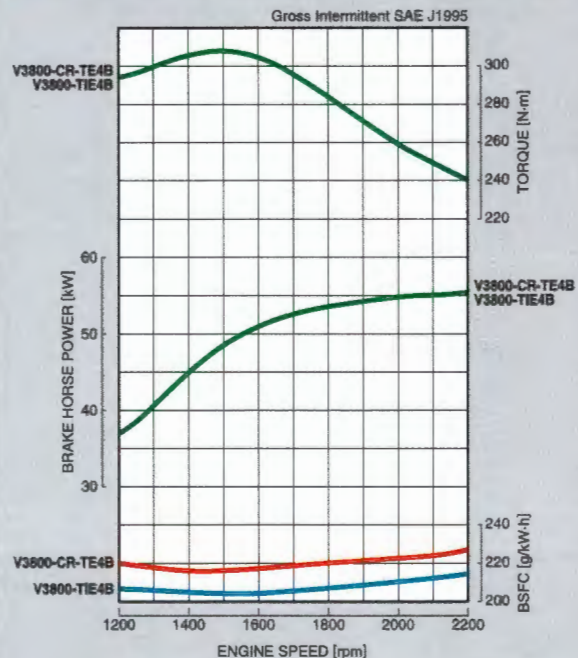
RATED POWER

55.4kW @2200rpm



Photographs may show non-standard equipment.

PERFORMANCE CURVES



FEATURES and BENEFITS

Performance and Technology

Customers expect two things from Kubota: the strong performance and the latest technology.

We continue to provide both by seeking excellence in emissions compliance and new strides in fully electronic controlled engine. These key areas allow Kubota to offer flexibility in our products and services to customers worldwide.

Emission Compliance

Meeting rigid emission regulations can be a challenge for any company. At Kubota, our V3800-CR-TE4B and V3800-TIE4B engines have been designed to comply with the stringent regulations: The EPA/CARB Tier4 and the EU Stage IIIB. In addition, innovative emission solutions, such as an aftertreatment device, have also been integrated into the engine.

Clean and Quiet Power

The Common Rail System has made it possible to optimize combustion and create a more durable, quiet, and fuel efficient engine. The engine model is available with Diesel Oxidation Catalyst (DOC) only or Diesel Particulate Filter (DPF) + DOC aftertreatment.

Flexibility

When working with customers in different countries who have different engine requirements, flexibility is a must. Since Kubota's V3 Series engines have evolved step-by-step to meet every EPA Tier, we can provide the appropriate emission regulation certified engine to any customer worldwide. In addition, we have designed an aftertreatment device with minimum package impact for easy installation.

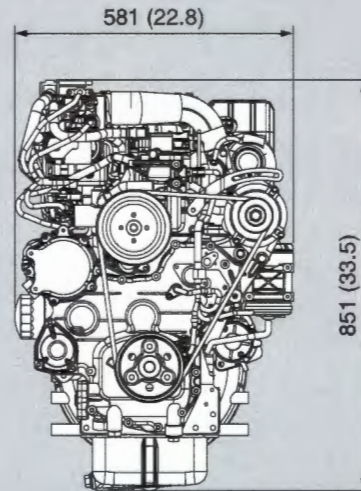
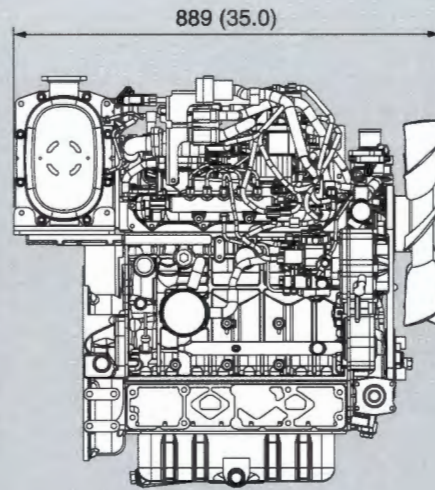
Reliability

The Kubota's V3 Series engines are the best solution for your company's global marketing strategy. We continuously strive to meet your needs with the experience and expertise you expect and deserve.

GENERAL SPECIFICATIONS

Model		V3800-CR-TE4B	V3800-TIE4B
Emission Regulation		Tier4 / Stage III B	
Type		Vertical 4-cycle liquid cooled Diesel	
Number of Cylinders		4	
Bore	mm (in)	100.0 (3.937)	
Stroke	mm (in)	120.0 (4.724)	
Displacement	L (cu.in)	3.769 (230.0)	
Combustion System		DI	
Aspiration		Turbocharged	Turbocharged + Turbo After Cooler
Aftertreatment device		DOC + DPF	DOC
Rated Speed	rpm	2200	
Output: Gross Intermittent	kW	55.4	
	HP	74.3	
	ps	75.3	
Direction of Rotation		Counter clockwise viewed from flywheel side	
Oil Pan Capacity	L (U.S.gal)	13.2 (3.5)	
Starter Capacity	V-kW	12-3.0	
Alternator Capacity	V-A	12-100	
Length	mm (in)	889 (35.0)	
Width	mm (in)	581 (22.8)	
Height	mm (in)	851 (33.5)	
Dry Weight	kg (lb)	325 (717)	324 (714)

DIMENSIONS



Dimensions and weight depend on composed specifications.

*Specification is subject to change without notice.
 *Diesel Oxidation Catalyst (DOC)
 *Diesel Particulate Filter (DPF)
 *Output: Gross Intermittent SAE J1995
 *Dimensions and weight are according to Kubota's standard specifications.



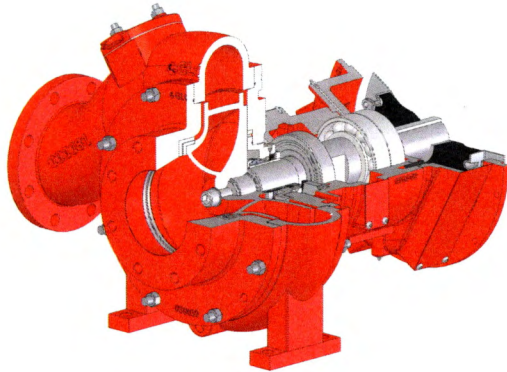
KUBOTA Engine America Corporation

505 Schelter Road, Lincolnshire, IL 60069
 Phone: 847-955-2500 Fax: 847-955-2699
www.kubotaengine.com

GLOBAL PUMP®

A MERSINO COMPANY

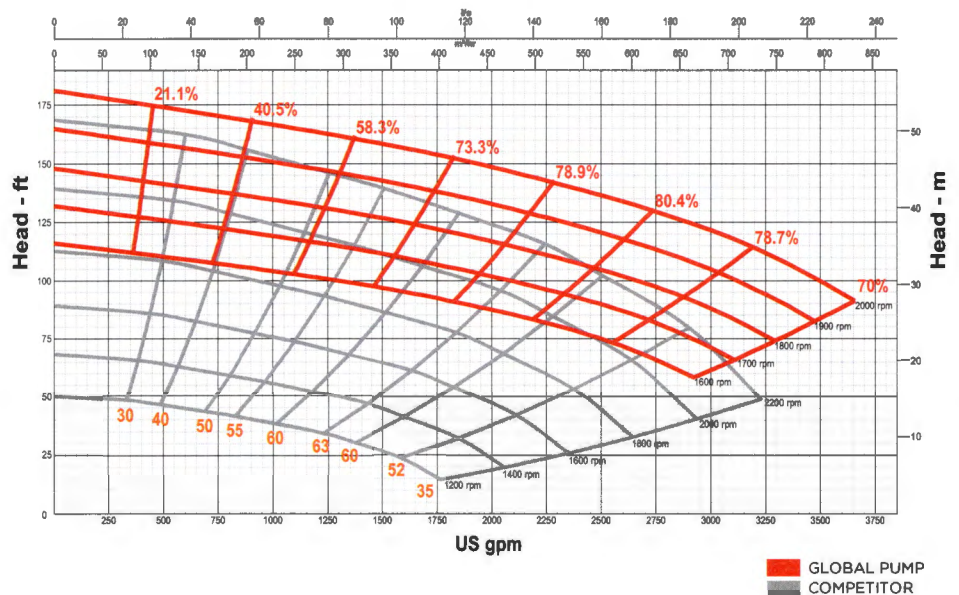
IMPELLER IMPACT ON PUMP EFFICIENCY



The versatility of portable, automatic priming trash pumps makes them ideally suited for many municipal and industrial sewage and wastewater applications. Selecting a pump with the optimal impeller type - enclosed or open - helps determine the overall field performance and operational cost of the pump.

	Enclosed Impeller	Open Impeller
Efficiency leading to lower fuel cost		
Less power for the same performance		
Inexpensive wear parts		
Low wear rate		

The example to the right shows the efficiency of an 8" Global Pump using an enclosed impeller versus an 8" competitor pump with an open impeller. Open impeller pumps have a lower efficiency due to recirculation between the impeller and casing. They also experience a higher impeller and casing wear rate between the impeller and the face of the casing.



SAVINGS AS EASY AS 1-2-3

Global Pump models are designed with a state of the art enclosed impeller that ensures both high efficiencies (fuel savings) and long component life leading to lower wear rates. These factors combine to provide you with savings that allow our pumps to pay for themselves in fuel savings much quicker than a comparable competitors pump.

1 - DETERMINE THE REQUIRED HORSEPOWER

Understanding how much power is required to achieve a specific duty point illustrates how much energy and therefore fuel is required. To do so, we need to determine water horsepower, or the power water gains from a pump. We then determine brake horsepower, or the actual power required by the pump end, based upon its efficiency. The following example uses a duty point of 2500 GPM @ 100' of TDH to compare an 80% efficient 8" enclosed Global Pump impeller to a comparable, but only 60% efficient 8" open impeller pump.

$$\text{WHP} = (\text{Flow} \times \text{TDH}) / 3960 \text{ GPM-F}$$

$$\text{WHP} = (2500 \times 100) / 3960 = 63$$

$$\text{BHP} = \text{WHP} / \text{Pump Efficiency}$$

$$\text{Global Pump BHP} = 63 / .80 = 79$$

$$\text{Competitor Pump BHP} = 63 / .60 = 105$$

2 - CALCULATE THE FUEL CONSUMPTION

A fuel consumption rate of .055 gallons per HP per hour is typical for an engine of the size used in this example.

$$\text{Fuel Consumption} = \text{BHP} \times \text{Fuel Burn Rate}$$

$$\text{Global Pump Fuel Consumption}$$

$$79 \times .055 = \sim 4.34 \text{ GPH}$$

$$\text{Competitor Pump Fuel Consumption}$$

$$105 \times .055 = \sim 5.77 \text{ GPH}$$

$$\text{Fuel Consumption Differential}$$

$$5.77 - 4.34 = 1.43 \text{ GPH}$$

3 - CALCULATE THE FUEL SAVINGS

Using an average diesel fuel cost rate of \$3 per gallon and a fuel consumption difference of 1.43 GPH, the competitor pump costs \$4.29 per hour more to operate than the comparable Global Pump. A full year's operational savings using a Global Pump can pay for the purchase of the pump over its competition.

$$\begin{aligned} \text{Daily Savings} &= \text{Fuel Cost/G} \times \text{Fuel Consumption Difference/Hour} \times 24 \text{ Hours} \\ &= 3 \times 1.43 \times 24 = \$102.96 \text{ in Fuel Savings Per Day} \end{aligned}$$

$$\begin{aligned} \text{Annual Savings} &= \text{Daily Savings} \times 364 \text{ Days} \\ &= 102.96 \times 364 = \$37,580.40 \text{ in Fuel Savings Per Year} \end{aligned}$$



GLOBAL PUMP
10162 East Coldwater Road, Davison, MI 48423
Tel: 810.653.4828 Fax: 810.658.0632
1.866.360.PUMP www.globalpump.com

NEW PRODUCT LIMITED WARRANTY

GLOBAL PUMP warrants its new products to be free from defects in materials and workmanship, under normal use and servicing, as specified in the Products and Periods section below and commencing on the date of shipment to the first end-user. This warranty shall extend only to the original owner, is non-transferrable, and shall not apply to any products which have been subject to damage, neglect, improper operation, or misapplication or have been repaired or altered without the express written consent of GLOBAL PUMP.

GLOBAL PUMP's sole obligation under this warranty is limited to the replacement or repair of the product or part(s), at its discretion, for products which, upon evaluation, inspection, and testing by GLOBAL PUMP or an authorized service facility, are found to be defective in materials or workmanship. Under no circumstances will GLOBAL PUMP be liable for any consequential damages or for any monetary claims that exceed the purchase price of the equipment in question.

A Warranty Claim Form referencing the model and serial number of the product, date of sale to original purchaser, and date and description of the failure shall accompany all part(s). Warranty claim must be received by GLOBAL PUMP within 30 days from the date of failure. Upon request, part(s) must be returned to a designated GLOBAL PUMP facility for evaluation. Returns must have prior written authorization from GLOBAL PUMP or they will not be accepted. Requested parts must be received by GLOBAL PUMP within 14 days of claim date or the claim will be denied; parts being returned from locations outside the continental United States must be received within 30 days of claim date. All return shipping costs are the responsibility of the claimant.

This warranty does not apply to any failures resulting from: (I) abuse or misuse; (II) improper or unauthorized repair, alteration, maintenance or operation; (III) accident, natural disaster or act of nature; or (IV) handling, shipping or storage. GLOBAL PUMP shall not be liable for any special, indirect, or consequential damages of any kind and will not be held responsible for labor, travel expenses, rented equipment, outside contractor fees, or unauthorized repair shop expenses. Warranties for major components and accessories not manufactured by GLOBAL PUMP are strictly limited to the warranty extended by the manufacturer of those components. GLOBAL PUMP neither assumes, nor authorizes any person or other company to assume for it, any other obligation in connection with the sale of its equipment. Any modification or extension of this warranty by a Representative or Sales Agent is their exclusive responsibility.

THE ABOVE WARRANTIES AND REMEDIES (I) ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES WHATSOEVER, EXPRESS OR IMPLIED, EACH OF WHICH ARE EXPRESSLY DISCLAIMED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USAGE OF TRADE AND NONINFRINGEMENT AND (II) SET FORTH THE ENTIRE OBLIGATION OF GLOBAL PUMP.

GLOBAL PUMP SHALL NOT BE SUBJECT TO AND HEREBY DISCLAIMS, EVEN IF GLOBAL PUMP HAS BEEN ADVISED OF THE POSSIBILITY OF THE SAME, (I) ANY OBLIGATIONS OR LIABILITIES ARISING FROM BREACH OF THE ABOVE WARRANTIES, OTHER THAN THE EXCLUSIVE REMEDIES EXPRESSLY SET FORTH HEREIN; (II) ANY OBLIGATIONS OR LIABILITIES ARISING FROM TORT CLAIMS (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER OTHER THEORIES OF LAW WITH RESPECT TO PRODUCTS AND PARTS SOLD BY GLOBAL PUMP, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO; AND (III) ANY AND ALL CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, PUNITIVE, CONTINGENT, SPECULATIVE AND SIMILAR DAMAGES.

GUIDELINES

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Product proof of purchase must be supplied. 2. This warranty is non-transferrable from the original owner. 3. Any and all warranty evaluation and repairs must be completed by GLOBAL PUMP or an authorized service facility. 4. GLOBAL PUMP, at its sole discretion, will determine if a product will be repaired or replaced. 5. Consequential damage caused by the use of unauthorized parts or materials will not be covered by this warranty. 6. Start-up reports, electrical system schematics, and additional documentation may be required to support warranty claims. | <ol style="list-style-type: none"> 7. Damage caused after receipt of products is the responsibility of the owner and is not covered by this warranty. Nicks, scrapes, dents, or scratches to the paint should be repaired promptly by the owner. 8. Proof of performance of all required maintenance must be available. 9. Warranty is effective only if GLOBAL PUMP's supplied or authorized control panels are used. 10. To avoid misrepresentations with respect to products and parts sold hereunder, this warranty may not be modified or altered except in writing signed by a duly authorized officer of GLOBAL PUMP. |
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PRODUCTS AND PERIODS

PUMPS Parts Only - 1 year or 2,000 hours (whichever occurs first)
MAJOR COMPONENTS Refer to original equipment manufacturer's warranty

References

Oakland County Water Resources Commissioner

One Public Work Drive, Building 95 west
Waterford, MI 48328
Brad Piper
P: 248-858-0958

Piperb@oakgov.com

Have sold 5-6" trash pumps (under different RFP's over the last 5 years) along with providing rental pumps and emergency services under contract with the County (have held contract since 2017).

Contract Values have ranged from \$27,500 to \$250,000.

This is an example of having built and sold multiple 6" trash pumps to spec through an RFP/Bid to a municipality, along with our ability to offer ongoing emergency support services under contract.

City of Hot Springs AR

111 Opera St.
Hot Springs, AR 71901
Bobby Harris
P: 501-623-7963

BHarris@cityhs.net

Sold a permanent emergency Backup 6" High Performance Trash pump 4/4/2019.

Contract Value \$59,999.00

This is an example of a 6" Permanent Backup pump sold and installed for a municipal lift station.

City of Flint, MI – Water Pollution Center

4652 Beecher Rd, Flint MI 48532
Rob Bincsik
P: 810-766-7210

RBincsik@cityofflint.com

Sold – 4- 4" Pumps and 1-6" Pump on 8/24/2018. Contract Value - \$172,337.50.

This is an example of selling multiple 4" and 6" units to spec to a municipality through an RFP/Bid.

City of Omaha – Public Works

Jeremy M. Bridges (PWks) [Jeremy.Bridges@cityofomaha.org]
City Maintenance Supervisor
Sewer Construction Division
City of Omaha - Public Works
Office 402-444-5332
Cell 402-618-6743

Note: All pumps delivered as specified and by due date.



SMITHERS

QUALITY ASSESSMENTS

CERTIFICATE OF APPROVAL

This is to Certify that the Quality Management System of:

Global Pump Company
10162 East Coldwater Road
Davison, MI 48423

has been assessed and approved by Smithers Quality Assessments, Inc., to the following quality management system standards and requirements:

ISO 9001:2015 with Design

The Quality Management System is Applicable to:

The fabrication and manufacturing of specialty products for a variety of industries.

Approval
Certificate Number: 15.243.1

Original Approval: August 31, 2015

Current Certificate: August 23, 2018

Certificate Expires: August 22, 2021



The use of the accreditation mark indicates accreditation in respect of those activities covered by the above certificate number.


on behalf of SQA - J. Michael Hochschwender, CEO

The approval is subject to the company maintaining its system to the required standards which will be monitored by Smithers Quality Assessments, Inc., 121 S. Main St. Suite 300, Akron, Ohio 44308, USA



REQUEST FOR TOWNSHIP BOARD ACTION

TO: Board of Trustees	DATE: October 8, 2021
FROM: Mark Stuhldreher, Township Manager	DATE FOR BOARD CONSIDERATION: 10/13/2021
ACTION REQUESTED: Consider approval of a request from Mid-Michigan Aquatic Recreational Authority (MMARA) for startup funding in the amount of \$10,000	

Current Action Emergency Funds Budgeted: If Yes Account # 101.172.967.150 No N/A Finance Approval MDS**BACKGROUND INFORMATION**

The newly formed Mid-Michigan Aquatic Recreational Authority Board has been meeting monthly since June. To date the work of the Authority has been impressive and the commitment and quality of the members that were appointed by the three participating entities is obvious.

The attached memo and proposed budget from the Mid-Michigan Aquatic Recreational Authority is requesting the three creating entities provide start-up funds in the respective amounts of \$10,000 for a total of \$30,000. The request for the start-up funds is reasonable and focuses on the type of activities that are needed to make the Authority more likely to be successful. In addition, and as noted in the letter, this request "...will provide the foundation from which future funding will come from both private & public donors and public tax revenue".

The request from the Township is for \$10,000. The Mt. Pleasant Public School Board approved the request at their October 4 meeting and the City of Mt. Pleasant is scheduled to consider the request on October 11.

SCOPE OF SERVICES

Funds will be utilized for such things as liability insurance premium, feasibility studies, consultant support in the legal and financial areas and as more fully described in the attached MMARA budget.

JUSTIFICATION

These funds will support the completion of organizational start-up requirements and provide for the consultant expertise needed to advance this community wide initiative.

PROJECT IMPROVEMENTS

The following Board of Trustees goals are addressed in this review (From Policy 1.0: Global End)

- Community well-being and common good
- Safety
- Health

COSTS

This contribution is not budgeted in FY '21 and will be included in the final budget amendment that will be considered by the Board of Trustees in November 2021.

PROJECT TIME TABLE

Not applicable

RESOLUTION

Move to approve an allocation of \$10,000 to the Mid-Michigan Aquatic Recreational Authority for start-up funds contingent on similar approval from the other two partners.

Moved by _____ Seconded by _____

Yes:

No:

Absent:

September 27, 2021

Dear Charter Township of Union Board of Trustees,

The Mid Michigan Aquatic Recreational Authority (MMARA) is at a critical juncture to build and operate an aquatic center. Forming the recreation authority was a significant step in making an aquatic center a reality in our community. Additionally, it is clear from our initial meetings and working groups the right representatives have been appointed to move this effort forward. To help the MMARA position itself to be a self-sustaining entity, some start-up money is needed, and we are asking each sponsoring agency to contribute \$10,000.

These funds will support the completion of organizational start-up requirements and provide for the consultant expertise needed to advance this initiative. Additionally, the funding will position the authority for fundraising efforts which will be necessary to fully realize the purpose of the authority. The attached budget breaks down in more detail the start-up funding needs. Our intent is that this request will provide the foundation from which future funding will come from both private & public donors and public tax revenue.

Without this support, we believe accomplishing the purpose outline in the Articles of Incorporation adopted by each support organization will be difficult to achieve. We realize this is not an insignificant dollar amount request, but we hope you will see that this is a small investment in what will be a significant asset to our community in the long run.

Again, we are asking the Township Board of Trustees to approve ten thousand dollars (\$10,000) for use by the Mid- Michigan Aquatic Recreational Authority to continue developing a sustainable community aquatic center. With this investment, the MMARA board will provide a detailed expenditure and progress report to the Township Board of Trustees on or before March 2022.

In Partnership,

John Zang, Chairman
Mid-Michigan Aquatic Recreational Authority

Copy:

Nancy Ridley, Mt. Pleasant City Manager
Mark Stuhldreher, Union Township Manager
Jennifer Verleger, Mt. Pleasant Public Schools, Superintendent

Mid-Michigan Aquatic Recreational Authority

PROPOSED START-UP BUDGET FOR MID-MICHIGAN AQUATIC RECREATIONAL AUTHORITY

Date of Issuance/Revision: September 27, 2021

DESCRIPTION:	DETAILED DESCRIPTION:	JUSTIFICATION:	BUDGET ALLOWANCE:
INSURANCE	Public Officials/Wrongful Acts Liability Insurance Bonding for Board Secretary & Treasurer	The Articles of Incorporation for our Recreational Authority states the required insurance minimum coverage and limits of liability that we are required to carry at all times. At this time, without owning any real property or automobiles, the required insurance is Public Officials/Wrongful Acts Liability Insurance with a \$5,000,000 limit of liability per occurrence. (In the future, General Liability and Automobile Liability Insurance coverage will also be required) At this time, it is also necessary to purchase Bonding coverage for the Board Secretary and Treasurer, as these individuals will be the signers on the bank account for receipt/deposit of all donations, and writing checks for any expenses. This is an allowance for the first 12 months of policy premiums for these policies.	\$ 1,000.00
FEASIBILITY STUDY UPDATE	Professional Consultant Scope of Work to Update and Re-Issue Feasibility Study	The initial Feasibility Study completed by Isaac Sports Group back in 2018, that was funded by the Swim Friends of Mid-Michigan, prior to the approval and creation of the Mid-Michigan Aquatic Recreational Authority, needs to be updated for the following reasons: 1. Update the program model, design model, operational and facility construction budgets. Considering cost escalation, best practices changes, Covid impact, etc. since 2018 2. Development of timeline and action plan for the continued advancement and management of the next stages of development. 3. Identify and assist in procuring additional professional services and providers. Including support with the development of RFP or RFQs. 4. Support public efforts with education and advocacy both in person and virtually. 5. Support with the exploration and evaluation of management options in support of achieving the most effective management model. 6. Budget value includes \$16,000 for Feasibility Study Scope of Work cost proposal, along with \$500 allowance for incidentals, reimbursables and travel expenses.	\$ 16,500.00
LEGAL	Professional Legal Consulting	We have been connected to an attorney in the Grand Rapids area that is very familiar with representing and assisting Recreational Authorities (referral from Holland Recreation Authority). This attorney has outlined the necessary items needing to be filed in order to apply for Federal Tax ID# and EIN. Without an EIN issued for our Authority, we are in a holding pattern and unable to open a bank account, accept donations, and also unable to complete required insurance applications. We need the assistance of this experienced attorney to get us through this process and get us our Federal EIN, so we can move forward with those other items. Additionally we anticipate needing Professional Legal Consulting for legal support in the development and review of Memo of Understanding for things such as site identification and property use agreements, etc.	\$ 3,000.00
WEBSITE DESIGN	Website Design / Development / Hosting - including graphic design, logo design, and content writing.	In order to kick off our efforts and begin sharing who we are and what we are doing, we need to have an online platform/place/document that we can share that both has information on our efforts and initiative, and is also able to accept donations. This allowance is for the design, development and hosting of a very basic website that we can begin to share with the community, and those that want to know more about who we are and what we are doing, and donate to our campaign.	\$ 3,000.00
MARKETING MATERIALS	Design and Printing of any necessary Marketing and Fundraising Materials	This allowance is for the design and printing of any necessary marketing/advertising and fundraising materials, such as: a one-page brochure, signs to hang in/at businesses and community events that can draw interest and direct interested community members to our website for more information.	\$ 750.00
ACCOUNTING	Accounting / Bookkeeping Software and Services for Record of all Financial Transactions and Financial Reporting	This allowance is for a 12-month subscription for a basic/essentials accounting and bookkeeping software and services for the Authority. Once funding is received and financial transactions begin, we will need to have accounting/bookkeeping software and services with the ability to run financial reports, and be able to be easily audited as required.	\$ 1,000.00
CONTINGENCY	Contingency Allowance for Unknowns and Overages	This Contingency Allowance will provide a cushion and source of funding for any unknown items, and overages on any of the above estimated allowances.	\$ 4,750.00
TOTAL START-UP BUDGET:			\$ 30,000.00

To: Board of Trustees	DATE: October 8, 2021
FROM: Mark Stuhldreher, Township Manager	DATE FOR CONSIDERATION: 10/13/2021
ACTIONS REQUESTED: To introduce and conduct a First Reading for the East DDA Development Plan and Tax Increment Finance Plan Amendatory Ordinance.	

Current Action X Emergency _____
Funds Budgeted: If Yes N/A Account _____
Finance Approval _____

BACKGROUND INFORMATION

For the past eleven months, the project consultants at CIB Planning have been working with staff and the Economic Development Authority (EDA) Board to prepare updates to the development and tax increment financing plans for the East DDA District. The current plans are set to expire on December 31, 2021. The updated East DDA District Tax Increment Financing Plan would extend the terms of the DDA District for an additional 20 years to provide the time needed to complete the scope of work outlined in the updated Development Plan for the District.

On August 17, 2021, the EDA Board took action to start the formal adoption process required by Act 57 by adopting Resolution Number EDA2021-01 to verify a public need to amend the current East DDA District development and tax increment financing plans, to indicate whether boundary changes are proposed as part of the plan amendments, to confirm that the revised potential project list and tax capture schedule for each DDA District better reflects the needs of the Township and the development community, and to approve the amended plans for the District.

On August 25, 2021, the Board of Trustees took action to set an October 13, 2021 public hearing date for the updated East DDA District plans. On September 28, 2021, the EDA Board also held a special informational meeting to invite comments and questions from the affected taxing jurisdictions.

Public hearing notices were published twice in the newspaper as required by Act 57. Notices were also sent via regular first class mail to all taxpayers of record, posted in multiple District locations, and mailed to the taxing jurisdictions via certified mail in accordance with Act 57 requirements.

Copies of the updated plans are included in the agenda packet. Also included for reference purposes is a copy of the "Implementation Strategy" document for the East DDA District. This document is not formally adopted with the East DDA District Development Plan, but rather is intended to serve as a tool for the EDA Board and Township staff to use to guide implementation of the plan.

SCOPE OF ACTIVITY

To introduce and conduct a First Reading for the East DDA Development Plan and Tax Increment Finance Plan Amendatory Ordinance.

JUSTIFICATION

Adoption of updated development and tax increment financing plans for the East DDA District is necessary to allow this District to continue to capture property tax revenues after 2021. These updates and extensions of the duration of the tax increment financing plans are necessary to support the completion of all projects and activities of the Economic Development Authority Board as identified in the updated East DDA District Development Plan.

BOARD OF TRUSTEES GOALS ADDRESSED

Board of Trustees goals addressed by the current and planned EDA projects and activities under the adopted Development Plan for the East DDA District (From Policy 1.0: Global End):

1. **Community well-being and common good**
2. **Prosperity through economic diversity, cultural diversity, and social diversity**
3. **Safety**
4. **Health**
5. **Natural Environment**
6. **Commerce**

COSTS

The project is proceeding in accordance with an approved contract entered into between the EDA Board and CIB Planning, and in accordance with funding budgeted for this purpose in the FY2021 approved budget for the East DDA District funds.

TIMETABLE

This project to prepare and adopt updated development and tax increment financing plans for the East DDA District and to extend the term of the District is anticipated to be completed in November of this year. A Second Reading is anticipated to be held on October 27, 2021, following which the Board will be asked to consider adoption.

ACTION REQUESTED

To introduce and conduct a First Reading for the East DDA Development Plan and Tax Increment Finance Plan Amendatory Ordinance.

Resolved by _____ Seconded by _____

Yes:

No:

Absent:

**CHARTER TOWNSHIP OF UNION
ISABELLA COUNTY, MICHIGAN**

EAST DDA DEVELOPMENT PLAN AND TAX INCREMENT FINANCE PLAN AMENDATORY ORDINANCE

ORDINANCE NO. _____

[An ordinance adopted under the provisions of the Recodified Tax Increment Financing Act (Public Act 57 of 2018, as amended, being MCL 125.4101 et seq.) and the Charter Township Act (Public Act 359 of 1947, as amended, being MCL 42.1 – MCL42.34) to adopt updated Development Plan and Tax Increment Finance Plan for the East Downtown Development Authority District, and to provide for publication and an effective date.]

WHEREAS, the Township’s Economic Development Authority Board has prepared and recommended for adoption of the updated Development Plan and Tax Increment Finance Plan for the East Downtown Development Authority District; and

WHEREAS, the Board of Trustees has held a public hearing on the updated plans after required notices were posted, published, and mailed in accordance with the requirements of the Recodified Tax Increment Financing Act (Public Act 57 of 2018, as amended, being MCL 125.4101 et seq.).

NOW, THEREFORE, THE CHARTER TOWNSHIP OF UNION, ISABELLA COUNTY, MICHIGAN HEREBY ORDAINS:

Section 1.0 Review and Determination of Public Purpose.

Following a duly noticed public hearing on the updated Development Plan and Tax Increment Finance Plan for the East Downtown Development Authority District, which were recommended to the Board of Trustees on August 17, 2021 by the Economic Development Authority (EDA) Board, which was established by Board of Trustees resolution for the purpose of governing the East DDA District in accordance with requirements of the Recodified Tax Increment Financing Act (Public Act 57 of 2018, as amended). The Board of Trustees has reviewed and found the plans to meet the following standards and criteria, as set forth in Act 57:

- (a) The Development Plan meets the requirements set forth in Section 125.4217 of Act 57, and the Tax Increment Financing Plan meets the requirements set forth in Section 125.4214 14 of Act 57.
- (b) The scope of proposed activities listed in the Development Plan is reasonable and necessary to carry out the purposes of Act 57.
- (c) The Development Plan is consistent with the Township’s Master Plan.
- (d) Public services, such as fire and police protection and utilities, are or will be adequate to serve the development area.
- (e) The proposed method of financing the development is feasible and the East DDA has the ability to arrange financing if needed.
- (f) Any land included within the development area to be acquired is reasonably necessary to carry out the purposes of the plans and of Act 57 in an efficient and economically satisfactory manner.
- (g) Potential changes to zoning, roads, intersections, and utilities are reasonably necessary for the project and for the Township.

In deliberations toward the adoption of this Ordinance, the Board of Trustees has determined that the adoption and implementation of the updated Development Plan and Tax Increment Finance Plan for the East Downtown Development Authority District constitutes a public purpose.

Section 2.0 Approval of the updated East DDA Plans.

Premised upon the determination made in Section 1.0 of this Ordinance and upon further finding that the execution of the updated Development Plan and Tax Increment Finance Plan for the East Downtown Development Authority District appear to be in the best interest of the Township, the updated plans are hereby approved and adopted by reference. No additional amendments to the plans shall be effective unless and until submitted to and approved by the Board of Trustees in accordance with the procedures established by Act 57.

Section 3.0 Repealer.

This Ordinance hereby repeals any ordinances or parts thereof in conflict herewith.

Section 4.0 Severability.

The provisions, sections, sentences and phrases of this Ordinance are declared to be severable and if any such portion is declared unconstitutional or invalid for any reason by a court of competent jurisdiction, such finding shall in no way affect or invalidate the remainder of this Ordinance.

Section 5.0 Publication.

The Clerk for the Township shall cause this Ordinance to be published in the manner required by law.

Section 6.0 Effective Date.

This Ordinance was approved and adopted by the Charter Township of Union Board of Trustees, Isabella County, Michigan, on _____, after a first reading by the Board of Trustees on _____, and publication after the first reading as required by Michigan Act 359 of 1947, as amended. This Ordinance shall become effective immediately upon publication of a summary of the ordinance and notice of adoption in a newspaper of general circulation in the Township, following adoption by the Township Board of Trustees.

RESOLUTION NO. EDA2021-01

**A RESOLUTION TO APPROVE AMENDING THE EAST DOWNTOWN DEVELOPMENT AUTHORITY
DISTRICT DEVELOPMENT AND TAX INCREMENT FINANCING PLANS**

WHEREAS, Public Act 57 of 2018 (Recodification Tax Increment Financing Act, MCL 125.4201 - 125.4230) authorizes a township to establish a Downtown Development Authority (DDA) District when it is in the best interests of the public to halt property value deterioration and increase property tax valuation, where possible, in its business district; to eliminate the causes of that deterioration; and to promote economic growth; and

WHEREAS, The Economic Development Authority (EDA) Board, which was established by Board of Trustees resolution for the purpose of governing the East DDA District in accordance with Act 57 requirements, has discussed the need to amend the current East DDA District development and tax increment financing plans to provide resources necessary for development project funding; and

WHEREAS, Section 125.4203 of Act 57 requires an ordinance be adopted by the Township Board of Trustees indicating the jurisdictional area meets certain legislative requirements and to set a date and time for a public hearing concerning amendment of the East DDA District development and tax increment financing plans.

THEREFORE BE IT RESOLVED by the EDA Board that:

1. The EDA Board finds there is a public need to amend the current East District DDA development and tax increment financing plans to halt property value deterioration and increase property tax valuation, where possible, in the district; to eliminate the causes of that deterioration; and to promote economic growth.
2. That the proposed amendments to the East DDA District development plan will change the boundaries of the DDA District, of which the primary roads in the District include E. Pickard Road (M-20), S. Isabella Road, and S. Summerton Road;
3. That the amended East DDA District development and tax increment financing plans incorporate a revised potential project list and tax capture schedule that better reflects the needs of the Township and the development community; and
4. That the EDA Board approves the amended East DDA District development and tax increment financing plans and respectfully requests that the Board of Trustees call for a public hearing regarding the proposed plan amendments and notify the taxing jurisdictions, providing an opportunity to meet with the Township concerning the plan amendments.

AS ADOPTED BY ROLL CALL VOTE



Thomas Kequom, EDA Board Chair

Date Aug. 19, 2021

Charter Township of Union East DDA Implementation Strategy



Charter Township of Union

Draft 7/27/2021

Adopted xxx xx, 2021

Implementation Strategy Background & Overview

The purpose of the Downtown Development Authority (DDA) is to correct and prevent deterioration and promote economic growth within Union Township's East principal business district. A development plan is one tool the Economic Development Authority (EDA) and DDA rely upon for identifying and implementing projects aimed at spurring new private investment. Supporting the development plan is an implementation strategy, or a matrix of projects both planned and proposed that is intended to be located outside the plan, in a workbook, so a new adoption process is not needed when future cost estimates are generated. The project implementation strategy is a matrix that is composed of projects that fall under the category descriptions listed below. The detailed project strategy that follows the category descriptions includes project categories, names and descriptions; priorities, time frames, cost range estimates (once available), and status notes. The matrix is intended to be a living document that can be updated as needed. As a reference, below are the projects that the implementation plan contains.

1. Business Development

The DDA will assist the Economic Development Authority, Planning Commission, local officials, businesspeople, entrepreneurs, etc., in providing an acceptable climate for business investment. Efforts will focus on assisting existing businesses and promoting new businesses that benefit the community. This will likely involve the following projects:

- Institution of a building rehabilitation grant program that provides qualifying applicants funding to improve their building.
- Encouraging property owners and developers to create mixed-use developments, in keeping with District zoning requirements.
- Other potential activities that support and promote local business development.

2. Public Buildings and Spaces

To better create a sense of place in the District and at strategic locations in the DDA District, the DDA will support the development and enhancement of public buildings and spaces including: pedestrian plazas, parks, open spaces, gardens, gazebos, sculptures, art, performance areas, walkways, and supporting site amenities, construction of public restrooms, or other similar structures identified as development occurs.

3. DDA Marketing/Development Studies and Promotional Events/Materials

Destination branding and marketing have key relationships with successful districts. It is an important task to complete once the DDA has identified redevelopment goals and has established its identity within the greater region. Marketing and development attraction studies can be used as tools to attract specific development types or specific developers. Marketing materials (online, print, radio, mailers, billboard rental) can also be prepared for distribution to developers, retailer and real estate firms promoting Union Township. This may include brochures, exhibits, trade area data, web site materials, social media activities, etc. It is also the Township's desire to create a unified image and market the East DDA District of Union Township as a cohesive business District. To that end, funding can be used for a joint marketing strategy and promotions with involvement of the business community that brings together resources for advertising, special events, and public relations.

4. Building Facade and Sign Improvement Program

Existing signs and structures in the DDA that are in need of upgrade in terms of design, materials and colors can apply for funding under this program. The DDA can allocate resources to pursue the following efforts toward upgrading the appearance of buildings in the District:

- Develop design guidelines or requirements for all buildings and signs in the District with corresponding sketches and pictures
- Develop a program to assist business owners in funding these improvements as a method to encourage implementation of the design guidelines or requirements

5. DDA Property Acquisition

This involves the acquisition of property to accomplish the goals set forth by the DDA. There are times when key pieces of property become available for purchase within the DDA District, which require the DDA to purchase said properties for redevelopment or public purposes. This can also be a tool to assist with blight removal and demolition within the District.

6. Special District & Urban Design Plans

District plans and urban design help to guide the built environment of the District. Many times, these plans focus on form and design elements to enhance the function of the District. Results of these plans can lead to new development projects that have been thoughtfully crafted to create vibrancy and increase density within the District core. These plans also generally result with the development of design-based guidelines for redevelopment of existing sites or development of new sites.

7. Demolition

Occasionally, development opportunities require demolition of existing sites and structures. The DDA can participate in the costs of the demolition process when it is appropriate to spur new development opportunities.

8. Public Infrastructure Improvements

Public improvements cover a wide array of projects including street lighting, streetscape enhancements, water and sewer improvements; electrical improvements, burying of existing and new utilities, storm water improvements, parking improvements, and generally anything else that falls within the public right-of-way, easement, or public realm.

9. Private Infrastructure Improvements

As part of redevelopment, developers are often required to improve private infrastructure or anything on a private property (not in a public right-of way). The DDA is able to assist with offsetting these costs, specifically when it comes to integrated parking structures such as vertical and underground parking, utilities, water and sewer tap fees; soft costs, and others that support density in accordance with local zoning, master plans, and city goals, but may be cost-prohibitive to complete the project. Although these improvements are considered private for funding purposes, they have public benefit and support the redevelopment efforts of the Township and DDA.

10. Site Preparation

Costs associated with site preparation can be significant for both public and private investment. These costs include such activities as clearing and grubbing; compaction and sub-base preparation; cut and fill operations; dewatering, excavation for unstable material, foundation work (to address special soil concerns, retaining walls, temporary sheeting/shoring, specific and unique activities, etc.); anything on private property not in a public right-of-way to support density; and prohibitive costs to allow for greater density in accordance with local zoning, master plans, and Township goals.

11. Environmental Activities

Environmental Activities would include activities beyond what may be supported by the Michigan Department of Environment, Great Lakes and Energy (EGLE) under an approved Brownfield Plan and Act 381 Work Plan to protect human health and the environment, off-set cost-prohibitive environmental costs and insurance needs, etc. This can also include wildlife and habitat preservation, or restoration related to a specific development project or Public Buildings and Spaces under item #2 above.

12. Project-Specific Gap Funding

Recognizing that the cost of mixed-use, traditional development is higher than it is for undeveloped sites, the Township may, at its own discretion, commit project-specific future tax increment capture back to private projects for a specified period of time. The goal is to provide funding to close the “gap” that prevents the project from becoming a reality due to financial feasibility. For example, if the pro-forma for a project indicates that it cannot generate enough income to cover the cost of construction and a reasonable rate of return for a developer/investor, future tax increment can be committed to that development to make it feasible. It can also be used as a tool to attract companies and businesses to the city to create new employment opportunities within the DDA District.

13. Consultation and Operational Expenditures

The Consultation and Operational Expenditures category provides for professional services (staff) and operational activities relating to the DDA. This category is relatively variable and is subject to the level and complexity of future activities taken on by the DDA. Professional services are required to implement the proposals within this Plan and to manage and operate the DDA. This may include, but is not limited to, market studies, grant writing and administration; planning and architectural design; engineering, inspections, and construction management services; and environmental assessment and mitigation planning. DDA operational activities may include but are not limited to public notices, mailings, office supplies, administrative support, and equipment usage/rental, etc.

14. Bond Repayments

Tax capture can be used to pay back money that was borrowed for eligible projects under this plan.

Board of Trustees Goals Addressed

Board of Trustees goals addressed by the current and planned EDA projects and activities, and that would be addressed by EDA authorization of additional economic development projects in the DDA Districts (From Policy 1.0: Global End).

1. Community well-being and common good
2. Prosperity through economic diversity, cultural diversity, and social diversity
3. Safety
4. Health
5. Natural environment
6. Commerce

Annual Projects: East and West DDA
Art Reach of Mid-Michigan Annual Festival of Banners along the Pickard Road corridor in the East DDA District.
Installation and maintenance of twelve (12) Welcome Banners in collaboration with the City of Mount Pleasant, Mount Pleasant Area Convention and Visitors Bureau, and Middle Michigan Development Corporation (East DDA)
Annual funding transfer to the Fire Fund in support of the fire service delivery contract with the City of Mount Pleasant (East DDA and West DDA)
Annual payment to Middle Michigan Development Corporation in support of MMDC economic development activities for the East DDA and West DDA Districts
Annual payment to Mt. Pleasant Area Convention and Visitors Bureau in support of economic development activities for the East DDA and West DDA Districts

Legend	
	New
	Existing, planned, proposed

EAST DDA PROJECT LIST

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
BUSINESS RETENTION & RECRUITMENT				
Organize an association of business owners in the District	High	1-2 years		
Facilitate the creation of an organization of the business owners in the East DDA District to work together on special events, coordinated hours, and other mutually beneficial business-led projects; and to expand opportunities for communication between the EDA and local businesses.				
<i>Global Ends Addressed: Commerce</i>				
Business Incubator & Innovation Center: Feasibility analysis	High	1-2 years		
Investigate establishing a small business incubator via a feasibility analysis at the former Mid Michigan college bldg (Pickard/Summerton) for the purpose of job skill training that businesses in the DDA District can utilize to strengthen and grow their workforce.				
<i>Global Ends Addressed: Commerce; Community Well-Being and the Common Good</i>				
Business Incubator & Innovation Center: Application and Funding	Medium	2-4 years		
Develop an application and funding process for the Mid Michigan college building renovation. TIF funding can support the development and management/operations can be supported by a non-profit organization. The non-profit consortium to include Central Michigan, DDA, Mott foundation, etc.				
<i>Global Ends Addressed: Commerce; Community Well-Being and the Common Good</i>				

Business Incubator & Innovation Center: Acquisition and Build	Medium	2-4 years		
Complete the acquisition process for the innovation center and work with engineering and design firms to design and renovate the center.				
<i>Global Ends Addressed: Commerce; Community Well-Being and the Common Good</i>				
Business Incubator & Innovation Center: Operations and Management	Medium	Ongoing		
Develop a non-profit consortium (Central Michigan, DDA, Mott foundation, etc.) to handle all operations and management of the innovation center				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Commerce</i>				
Target Market Analysis	Low	4-6 years		
Identify investment opportunities and market gaps for retail and residential markets.				
<i>Global Ends Addressed: Commerce</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
PUBLIC BUILDINGS & SPACES				
Funding to support preparation of an updated Parks Master Plan	High	1 year	Estimated: \$10,000-\$15,000	Funded for 10k, Rodney is working on it
Funding in support of preparation of the East DDA component of an updated Parks and Recreation Master Plan, which would allow the Township to be eligible for state recreation grants.				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Health</i>				
Parks and Recreation Improvements	Medium	2-4 years		
Funding to improve public parks and pocket parks within the District				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Health</i>				

Additional improvements to and expansion of Jameson Park	Medium	2-4 years		
Funding in support of property acquisition to expand Jameson Park, update ballfields, provide additional recreational facilities, expand parking areas and stormwater management facilities, and complete other building, site, and infrastructure improvements.				Funded for some of work
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Health</i>				
New public landmark or community gathering place	Medium	2-4 years		
Develop, implement, and fund a project to create a prominent public landmark or focal point amenity for the DDA District, or to create a transformational community gathering place for events. <i>Purpose: Spaces outside of the workplace and home are important for building strong communities. These spaces help people connect within their community around shared interests. If successful, shared spaces not only serve to connect people, but become a place the users will defend and protect.</i> <i>Potential locations: Adjacent to McGuire Elementary, within potential expansion areas B (adjacent to neighborhood) and A.</i>				The purpose, potential locations, and development options for this project should be considered as part of an update to the East DDA Development Plan (SEE ITALICS IN DESCRIPTION).
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range	Status
DDA MARKETING/DEVELOPMENT STUDIES & PROMOTIONAL EVENTS/MATERIALS				
Branding and marketing activities	Medium	2-4 years		
Hire marketing and graphic design professionals to develop and implement a marketing and branding campaign for the purpose of establishing the DDA District as a distinct place for the purpose of marketing and attracting customers, businesses, and visitors. This strategy needs to incorporate a range of elements from traditional print and media efforts to social media and Internet promotions.				The Middle Michigan Development Corporation and Mt. Pleasant Area Chamber of Commerce provide some marketing and media services that benefit the East DDA District, but there is more that can be done.
<i>Global Ends Addressed: Commerce</i>				

Wayfinding signage	Medium	2-4 years		
Develop, implement, and fund a project to design and install wayfinding directional signage for community facilities, businesses, and other amenities in the DDA Districts, to assist visitors in reaching their destinations, to increase awareness of key local amenities, and to further develop a unified visual character for the DDA Districts.				Will require coordination with MDOT and the Road Commission, along with acquisition of necessary easements. This project should be considered as part of an overall branding and marketing effort.
<i>Global Ends Addressed: Prosperity through Economic Diversity, Cultural Diversity, and Social Diversity</i>				
District Advertising	Medium	Annually		
Annually promote Development Area businesses through group buying outdoor advertising, print media, television, and radio advertising.				
<i>Global Ends Addressed: Commerce</i>				
Community Events	Medium	Annually		
Assist in the funding of community events that are hosted in park spaces and community gathering spaces				
<i>Global Ends Addressed: Prosperity through Economic Diversity, Cultural Diversity, and Social Diversity</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range	Status
BUILDING FAÇADE AND SIGN IMPROVEMENT PROGRAM				
Grant program – building facades	High	1-2 years		
Develop and implement a grant program to improve the appearance of existing buildings in the DDA District.				
<i>Global Ends Addressed: Commerce</i>				
Grant program – freestanding signs	High	1-2 years		
Develop and implement a grant program to encourage replacement of existing pole-mounted freestanding signs on lots with monument-style ground-mounted signs. The goal of this program is to establish a more coordinated visual character for business signage and maximize sign visibility in areas where mature street trees tend to obscure taller signs.				
<i>Global Ends Addressed: Commerce</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
DDA PROPERTY ACQUISITION				
High Bay Flex Office property acquisition and development	Medium	2-4 years		
Explore potential opportunities in the high bay flex office/warehouse spaces for business growth and attraction, as identified by the MMDC.				Identify, purchase, market, sell, lease, and/or redevelop strategic properties as catalyst projects to spur further private investment. Public Act 57 of 2018 allows the EDA to improve land and construct, reconstruct, rehabilitate, restore and preserve, equip, improve, maintain, and operate any building, including multiple-family dwellings, in the DDA Districts for the use, in whole or in part, of any public or private person or corporation, or any combination thereof.
<i>Global Ends Addressed: Community Well-Being and the Common Good; and</i>				
Explore acquisition of Enterprise Park for Industrial	Medium	2-4 years		
Explore feasibility of acquiring property at Pickard/Enterprise Drive for industrial use. The area benefits from easy access to US-127, flat land, adequate power (440V, 3 phase in bldg.), good roads.				
<i>Global Ends Addressed: Commerce</i>				
East DDA District Projects & Descriptions				
East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
SPECIAL DISTRICT & URBAN DESIGN PLANS				
Establish a budget line item for special projects like feasibility studies, design plans, etc.	Medium	2-4 years		
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Commerce</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
DEMOLITION				
Residential foreclosure acquisition and redevelopment	Medium	2-4 years		
Explore the acquisition and demotion of foreclosed residential property in expansion area B for redevelopment into a public pocket park or thoroughfare with a sidewalk				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Health</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
PUBLIC INFRASTRUCTURE IMPROVEMENTS				
Construct a cross-connection between Bud St. and Airway Dr.	High	1-2 years		
Work with the Road Commission to design, implement, and fund a project to construct a new local road and associated sidewalk and underground utility improvements between Bud St. and Airway Dr. This project would create a new pedestrian and vehicular connection between existing neighborhoods and may facilitate development of underutilized land in this area.				Will require coordination with and agreement from the Road Commission, along with property acquisition for the road right-of-way.
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				
Construct an extension of Corporate Dr. eastward to Belmont Dr.	High	1-2 years		
Work with the Road Commission to design, implement, and fund a project to extend Corporate Dr. from its current end point east of Packard Rd. eastward to Belmont Dr., along with associated sidewalk and underground utility improvements. This project would create a new pedestrian and vehicular connection and facilitate development of underutilized land in this area.				Will require coordination with and agreement from the Road Commission, along with property acquisition for the road right-of-way.
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				
Locate and map the existing streetlighting and irrigation systems	High	1-2 years		

<p>There is no set of as-built drawings for the EDA’s streetlighting and irrigation systems in the East DDA District, and these systems are not currently mapped into the Michigan Utility Notification Center's MISS DIG system. This means that this public infrastructure is vulnerable to potentially costly damage each time an excavation takes place near the lines, and that the EDA will be fully responsible for the associated repair costs. The MISS DIG system and associated Underground Facility Damage Prevention and Safety Act (Public Act 174 of 2013) are intended to protect public infrastructure investments from being damaged or destroyed during excavation work. If these systems were to be accurately mapped and added to the MISS DIG system, liability for the cost of repairs would shift from the EDA to the contractor doing the work that caused the damage. Accurate mapping would help to protect the public investment in these improvements, ease future repairs and system improvements, and assist the Township’s Public Services Department with their work on municipal water and sanitary sewer lines in the area.</p>				
<p><i>Global Ends Addressed: Community Well-Being and the Common Good; Safety; and Commerce</i></p>				
<p>Burial of overhead utility and communication lines</p>	High	1-2 years		
<p>Funding in support of projects to complete the burial of all utility and communication lines in the DDA District, in coordination with Consumers Energy and other entities with existing overhead lines.</p>				Will require coordination with road improvement projects, utilities agreement, and good communication with local businesses.
<p><i>Global Ends Addressed: Community Well-Being and the Common Good</i></p>				
<p>Construct an extension of Corporate Dr. eastward to Belmont Dr.</p>	High	1-2 years		
<p>Work with the Road Commission to design, implement, and fund a project to extend Corporate Dr. from its current end point east of Packard Rd. eastward to Belmont Dr., along with associated sidewalk and underground utility improvements. This project would create a new pedestrian and vehicular connection and facilitate development of underutilized land in this area.</p>				Will require coordination with and agreement from the Road Commission, along with property acquisition for the road right-of-way.
<p><i>Global Ends Addressed: Commerce</i></p>				

Construct an extension of E. Ward St. eastward from Elizabeth St. to Third St. south of Palmer St.	High	1-2 years		
Work with the Road Commission to design, implement, and fund a project to extend E. Ward St. eastward from Elizabeth St. to Third St. south of Palmer St. (behind the Art Van building), along with associated sidewalk and underground utility improvements. This project would create a new connection between neighborhoods.				Will require coordination with and agreement from the Road Commission, along with property acquisition for the road right-of-way.
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				
Cul-de-sac and sidewalk improvements near the Mary McGuire Elementary School.	High	1-2 years		
Work with the Road Commission and the Mt. Pleasant School District to design, implement, and fund a project to construct: (1) cul-de-sac turnarounds at the south ends of Carter St. and Betty Lane; (2) a sidewalk connection and looping of underground utilities eastward from Carter St. to connect to Betty Lane, Yats Dr., and S. Isabella Rd. along the north edge of the School parcel; and (3) a sidewalk connection to the school entrance.				
<i>Global Ends Addressed: Safety and Health</i>				
Improve roadways in Industrial area in Northwest corner (Expansion Area A)	Medium	2-4 years		
Work with the road commission to improve roadways along N. Packard				
<i>Global Ends Addressed: Safety and Health</i>				
Improve intersection of Isabella/Pickard	Medium	2-4 years		
Work with road commission to improve roadway and pedestrian intersection at Isabella and Pickard Roads.				During SWOT, it was stated that this should be opened up to 5 lanes of traffic.
<i>Global Ends Addressed: Safety and Health</i>				
Sidewalk installation and improvements along Isabella from Broadway (south) to Airport Rd. (north)	Medium	2-4 years		
Work with the Road Commission to design, implement, and fund a project to install sidewalks along Isabella Road from Broadway (south) to Airport (north). This project would provide pedestrian access and recreation opportunities between the neighborhoods, school, and commercial District.				
<i>Global Ends Addressed: Safety and Health</i>				

Free public WiFi Internet	High	1-2 years		
Develop, implement, and fund a project to provide for an attractive public amenity like free public wireless internet service, either through a public system or through interconnection of private wireless Internet facilities by partnering with businesses. An example of a private partnership interconnection model is the very successful Wireless Ypsi project: [https://meraki.cisco.com/lib/pdf/meraki_cs_ypsilanti_MI.pdf]				
<i>Global Ends Addressed: Commerce</i>				
Sidewalk installation and improvements along Broadway from Rosewood Dr. to Summerton Rd.	Low	4-6 years		
Work with the Road Commission to design, implement, and fund a project to install sidewalks along Broadway from Rosewood Dr. to Summerton Rd. This project would provide pedestrian access and recreation opportunities between the neighborhoods, school, and commercial District.				
<i>Global Ends Addressed: Safety and Health</i>				
Bicycle Lanes	Medium	2-4 years		
Install bicycle lanes on roads where right-of-way is available				
<i>Global Ends Addressed: Safety and Health</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
PRIVATE INFRASTRUCTURE IMPROVEMENTS				
Grant program – beautification	High	1-2 years		
Develop and implement a grant program to encourage landscaping and other site beautification work on existing lots.				Some money in budget
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				
Grant program – pedestrian access	High	1-2 years		
Develop and implement a grant program to encourage installation of private sidewalks and barrier-free pedestrian access improvements from public sidewalks to existing buildings.				Some money in budget
<i>Global Ends Addressed: Safety and Health</i>				

Grant program – bicycle parking improvements	High	1-2 years		
Develop and implement a grant program to encourage installation of secured and sheltered bicycle parking facilities for businesses.				
<i>Global Ends Addressed: Health</i>				
Increase broadband Internet capacity.	Medium	2-4 years		
Develop, implement, and fund a project to enhance the capacity and reliability of broadband Internet communications services in the District to attract and maintain businesses and promote economic development, including a new fiber optic network.				Prior to pursuing these projects, a survey of local businesses should be undertaken to identify current options and unmet needs. Any installation of a new or expanded fiber optic network would also require coordination with and agreement from MDOT and the Road Commission, along with acquisition of any necessary easements for surface facilities.
<i>Global Ends Addressed: Commerce</i>				
Grant program – exterior lighting	High	1-2 years		
Develop and implement a grant program to encourage replacement of unshielded exterior light fixtures with fully shielded fixtures coordinated pole lighting designs.				
<i>Global Ends Addressed: Safety and Health</i>				
East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
SITE PREPARATION				
Funding can be used to pay for development site preparation like the removal of foundations, importing of fill, removal of poor soils, etc.	Medium	2-4 years		
East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
ENVIRONMENTAL ACTIVITIES				
At times the cost of environmental remediation exceeds tax increment that can be captured under the Brownfield Act and additional funding is needed through the DDA.	Medium	2-4 years		

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
PROJECT-SPECIFIC GAP FUNDING				
Identification and analysis of redevelopment sites	Medium	2-4 years		
Identify sites for commercial and retail redevelopment in the District to rehabilitate existing structures and spur additional economic growth and vitality				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Commerce</i>				
Application process for TIF Funding				
Set up application process for requests to utilize TIF funding for project re/development	High	1-2 years		
<i>Global Ends Addressed: Commerce</i>				
Funding administration of TIF	Medium	ONGOING		
Audit and administer TIF funding for re/development				
<i>Global Ends Addressed: Commerce</i>				

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
CONSULTATION AND OPERATIONAL EXPENDITURES				
Develop a funding process to pay for the assistance of specialized consultants and EDA operational costs.	High	ONGOING		

East DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status
BOND REPAYMENTS				
Where necessary, borrowed monies can be repaid using DDA capture tax increment.	Medium	2-4 years		

Tax Increment Financing Plan Updates for the EAST Downtown Development Authority District

2021



Charter Township of Union

Draft 7/30/2021

Adopted xxx xx, 2021

ACKNOWLEDGEMENTS

The Charter Township of Union East Downtown Development Authority was created in 1985 pursuant to the Downtown Development Authority (Act 197 of 1975), as repealed and recodified under the Recodified Tax Increment Financing Act (Act 57 of 2018). The purpose of the Authority is to correct and prevent deterioration and promote economic growth within the Charter Township of Union's East principal business district.

For their vision and support, the following community leaders should be recognized:

Board of Trustees:

Bryan Mielke, Township Supervisor
Lisa Cody, Township Clerk
Kimberly Rice, Township Treasurer
Connie Lee Bills, DPM, Trustee
Jeff Brown, Trustee
Bill Hauck, Trustee
James Thering, Trustee

Economic Development Authority Board:

Thomas Kequom, Chair
Bryan Mielke, Vice-Chair
Robert Bacon
Richard Barz
Sarvjit Chowdhary
David Coyne
Marty Figg
Cheryl Hunter
Jeff Sweet
James Zalud

Charter Township of Union Staff Members:

Mark Stuhldreher, Township Manager
Rodney C. Nanney, AICP, Community and Economic Development Director
Kim Smith, Public Services Director
Sherrie Teall, Finance Director
Joy Smith, GIS Specialist
Amy Peak, Building Services Clerk

This plan was prepared with assistance from **CIB Planning**



ADOPTED BY ECONOMIC DEVELOPMENT AUTHORITY BOARD: xxxxxx xx, 2021

ADOPTED BY CHARTER TOWNSHIP OF UNION'S BOARD: xxxxxx xx, 2021

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BACKGROUND AND PURPOSES

GENERAL OVERVIEW

The Charter Township of Union East Downtown Development Authority (DDA) was first created in 1985. A DDA is governed by an appointed Board whose primary purpose is to correct and prevent deterioration and promote economic growth within the township's principal business districts. Other purposes of a DDA include reversing declining property values, improving the overall business climate, and increasing employment opportunities. A primary benefit of forming a DDA is the ability to capture the incremental increase in property taxes that result from improvements in the District. These tax revenues are used to finance public improvements and redevelopment projects within the District, which furthers the goal of economic growth.

A Development Plan is one tool the EDA and DDA rely upon for identifying and implementing projects aimed at spurring new private investment. Recommendations also ensure that improvements match the available revenues and can enable the East DDA to become eligible for other funding sources. This Plan was prepared in accordance with the Downtown Development Authority Act, P.A. 57 of 2018. Additional corresponding information can be found in the East DDA District Implementation Strategy that accompanies this plan but is adopted separately by the EDA Board.

A DDA can capture new tax increment in the District (TIF) and use it to pay for improvements that otherwise could not be afforded by either local businesses or government. This funding can also be used to incentivize projects that otherwise are not feasible due to development costs that exceed possible revenue. Moreover, creation of a TIF district does not take away current tax revenue; it just captures new tax revenue that results from improvements to property or an increase in value. It also does not cause payment of increased taxes by property owners in the DDA Districts.

LEGAL BASIS OF THE PLAN

The Development Plan and Tax Increment Financing Plan are prepared pursuant to the requirements of Section 217(2)(a-p) of Act 57 of 2018. More specifically, Section 217 of the Act states that “When a board decides to finance a project in the downtown district by the use of revenue bonds as authorized in section 213 or tax increment financing as authorized in sections 214, 215, and 216, it shall prepare a development plan.”

DEVELOPMENT PLAN REQUIREMENTS

Section 217 also indicates that the development plan shall contain all the following:

A. The designation of boundaries of the development area in relation to highways, streets, streams, or otherwise.

The development area is located within the limits of Union Township (Map 1). In general, the District area runs along Airport Road on the north including parcels just south of North and South US 127, with the western-most border just west of Park Place, jogging east along Corporate Drive, south along a boundary just east of Packard Road, jogging to the east just south of Pickard Road above Manor to a boundary just west of Carter, south to Broadway, to Summerton Road on the east, and back north to Airport Road. The legal description is found in Appendix A, Development Area Boundary.

B. The location and extent of existing streets and other public facilities within the development area, designating the location, character, and extent of the categories of public and private land uses then existing and proposed for the development area, including residential, recreational, commercial, industrial, educational, and other uses, and including a legal description of the development area.

Existing land uses in the Development Area are illustrated on Map 2, "Existing Land Use".

C. A description of existing improvements in the development area to be demolished, repaired, or altered, a description of any repairs and alterations, and an estimate of the time required for completion.

The description of existing improvements to be demolished and associated schedule for implementation is provided in this plan under the heading “Proposed Improvements.”

D. The location, extent, character, and estimated cost of the improvements including rehabilitation contemplated for the development area and an estimate of the time required for completion.

To expand upon what was indicated above, the location, character and estimated cost/timing of the improvements is provided below:

PROPOSED IMPROVEMENTS: EAST UNION TOWNSHIP DDA

1. Business Development

\$2,155,000—\$2,500,000

The DDA will assist the Economic Development Authority, Planning Commission, local officials, businesspeople, entrepreneurs, etc., in providing an acceptable climate for business investment. Efforts will focus on assisting existing businesses and promoting new businesses that benefit the community. This will likely involve the following projects:

- Institution of a building rehabilitation grant program that provides qualifying applicants funding to improve their building.
- Encouraging property owners and developers to create mixed-use developments, in keeping with District zoning requirements.
- Other potential activities that support and promote local business development.

2. Public Buildings and Spaces

\$1,755,000—\$2,050,000

To better create a sense of place at strategic locations in the DDA District, the DDA will support the development and enhancement of public buildings and spaces including pedestrian plazas, parks, open spaces, gardens, gazebos, sculptures, art, performance areas, walkways, and supporting site amenities, construction of public restrooms, or other similar structures identified as development occurs.

3. DDA Marketing/Development Studies & Promotional Events/Materials **\$855,000—\$905,000**

Destination branding and marketing have key relationships with successful districts. It is an important task to complete once the DDA has identified redevelopment goals and has established its identity within the greater region. Marketing and development attraction studies can be used as tools to attract specific development types or specific developers. Marketing materials (online, print, radio, mailers, billboard rental) can also be prepared for distribution to developers, retailer and real estate firms promoting Union Township. This may include brochures, exhibits, trade area data, web site materials, social media activities, etc. It is also the Township's desire to create a unified image and market the East DDA District of Union Township as a cohesive business District. To that end, funding can be used for a joint marketing strategy and promotions with involvement of the business community that brings together resources for advertising, special events, and public relations.

4. Building Facade and Sign Improvement Program **\$535,000—\$575,000**

Existing signs and structures in the DDA that are in need of upgrade in terms of design, materials and colors can apply for funding under this program. The DDA can allocate resources to pursue the following efforts toward upgrading the appearance of buildings in the District:

- Develop design guidelines or requirements for all buildings and signs in the District with corresponding sketches and pictures
- Develop a program to assist business owners in funding these improvements as a method to encourage implementation of the design guidelines or requirements.

5. DDA Property Acquisition **\$1,025,000—\$1,550,000**

This involves the acquisition of property to accomplish the goals set forth by the DDA. There are times when key pieces of property become available for purchase within the DDA District, which require the DDA to purchase said properties for redevelopment or public purposes. This can also be a tool to assist with blight removal and demolition within the District.

6. Special District & Urban Design Plans **\$475,000—\$500,000**

District plans and urban design help to guide the built environment of the District. Many times, these plans focus on form and design elements to enhance the function of the District. Results of these plans can lead to new development projects that have been thoughtfully crafted to create vibrancy and increase density within the District core. These plans also generally result with the development of design-based guidelines for redevelopment of existing sites or development of new sites.

7. Demolition **\$460,000—\$500,000**

Occasionally, development opportunities require demolition of existing sites and structures. The DDA can participate in the costs of the demolition process when it is appropriate to spur new development opportunities.

8. Public Infrastructure Improvements **\$1,855,000—\$2,200,000**

Public improvements cover a wide array of projects including street lighting, streetscape enhancements, water and sewer improvements; electrical improvements, burying of existing and new utilities, storm water improvements, parking improvements, and generally anything else that falls within the public right-of-way, easement, or public realm.

9. Private Infrastructure Improvements

\$500,000—\$550,000

As part of redevelopment, developers are often required to improve private infrastructure or anything on a private property (not in a public right-of way). The DDA is able to assist with offsetting these costs, specifically when it comes to integrated parking structures such as vertical and underground parking, utilities, water and sewer tap fees; soft costs, and others that support density in accordance with local zoning, master plans, and city goals, but may be cost-prohibitive to complete the project. Although these improvements are considered private for funding purposes, they have public benefit and support the redevelopment efforts of the Township and DDA.

10. Site Preparation

\$495,000—\$575,000

Costs associated with site preparation can be significant for both public and private investment. These costs include such activities as clearing and grubbing; compaction and sub-base preparation; cut and fill operations; dewatering, excavation for unstable material, foundation work (to address special soil concerns, retaining walls, temporary sheeting/shoring, specific and unique activities, etc.); anything on private property not in a public right-of-way to support density; and prohibitive costs to allow for greater density in accordance with local zoning, master plans, and Township goals.

11. Environmental Activities

\$375,000—\$425,000

Environmental Activities would include activities beyond what may be supported by the Michigan Department of Environment, Great Lakes and Energy (EGLE) under an approved Brownfield Plan and Act 381 Work Plan to protect human health and the environment, off-set cost-prohibitive environmental costs and insurance needs, etc. This can also include wildlife and habitat preservation, or restoration related to a specific development project or Public Buildings and Spaces under item #2 above.

12. Project-Specific Gap Funding, Variable depending upon project (\$4,955,000—\$5,350,000)

Recognizing that the cost of mixed-use, traditional development is higher than it is for undeveloped sites, the Township may, at its own discretion, commit project-specific future tax increment capture back to private projects for a specified period of time. The goal is to provide funding to close the “gap” that prevents the project from becoming a reality due to financial feasibility. For example, if the pro-forma for a project indicates that it cannot generate enough income to cover the cost of construction and a reasonable rate of return for a developer/investor, future tax increment can be committed to that development to make it feasible. It can also be used as a tool to attract companies and businesses to the city to create new employment opportunities within the DDA District.

13. Consultation and Operational Expenditures

\$1,035,000—\$1,500,000

The Consultation and Operational Expenditures category provides for professional services (staff) and operational activities relating to the DDA. This category is relatively variable and is subject to the level and complexity of future activities taken on by the DDA. Professional services are required to implement the proposals within this Plan and to manage and operate the DDA. This may include, but is not limited to, market studies, grant writing and administration; planning and architectural design; engineering, inspections and construction management services; and environmental assessment and mitigation planning. DDA operational activities may include but are not limited to public notices, mailings, office supplies, administrative support, and equipment usage/rental, etc.

14. Bond Repayments

\$1,025,000—\$1,500,000

Tax capture can be used to pay back money that was borrowed for eligible projects under this plan.

Estimated Total Cost of All Projects: \$17,500,000—\$20,680,000

E. A statement of the construction or stages of construction planned, and the estimated time of completion of each stage.

The specific projects to be undertaken by the DDA are not known at this time. The “Proposed Improvements” list above will be updated to show the construction planned, and the estimated time of completion, for each project as this information is known.

F. A description of any parts of the development area to be left as open space and the use contemplated for the space.

Future land uses for DDA District are shown on Map 3 and it identifies existing and proposed open space.

G. A description of any portions of the development area that the authority desires to sell, donate, exchange, or lease to or from the municipality and the proposed terms.

At the present time the Authority has no plans to lease, own, or otherwise control property in its own name. Should acquisition of property be required in the future to accomplish the objectives of the DDA, or should the Authority receive property by donation, through purchase, or by any other means of acquisition, the Authority will establish and formally adopt appropriate procedures for property disposition, subject to applicable Federal, State, and local regulations.

H. A description of desired zoning changes and changes in streets, street levels, intersections, traffic flow modifications, or utilities.

Union Township has recently updated the Master Plan and will look for opportunities to strengthen zoning regulations, while remaining flexible, for new uses that may be attracted to the District. This will require zoning updates on a regular basis and may positively impact properties in the DDA boundary area. Those amendments will be added to the Appendix of this document when approved. Proposed changes in infrastructure such as streets, sidewalks, utilities, etc. are not known at this time but will also be added to the Appendix when they are known.

I. An estimate of the cost of the development, a statement of the proposed method of financing the development, and the ability of the authority to arrange the financing.

A description, including cost estimate and schedule of implementation, for each improvement project that will be completed within the District is contained in the project schedule and budget in this plan under “Proposed Improvements.”

J. Designation of the person or persons, natural or corporate, to whom all or a portion of the development is to be leased, sold, or conveyed in any manner and for whose benefit the project is being undertaken if that information is available to the authority.

Information concerning the names of people for whom benefits may accrue is unknown at this time and will not be available until phases of implementation are underway.

K. The procedures for bidding for the leasing, purchasing, or conveying in any manner of all or a portion of the development upon its completion, if there is no express or implied agreement between the authority and persons, natural or corporate, that all or a portion of the development will be leased, sold, or conveyed in any manner to those persons.

All such procedures will follow both Township and State law and at the present time there are no commitments made.

- L. Estimates of the number of persons residing in the development area and the number of families and individuals to be displaced. If occupied residences are designated for acquisition and clearance by the authority, a development plan shall include a survey of the families and individuals to be displaced, including their income and racial composition, a statistical description of the housing supply in the community, including the number of private and public units in existence or under construction, the condition of those units in existence, the number of owner-occupied and renter-occupied units, the annual rate of turnover of the various types of housing and the range of rents and sale prices, an estimate of the total demand for housing in the community, and the estimated capacity of private and public housing available to displaced families and individuals.**

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan. Should said displacement be planned during implementation of the plan, the above information will be gathered accordingly.

- M. A plan for establishing priority for the relocation of persons displaced by the development in any new housing in the development area.**

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan.

- N. Provision for the costs of relocating persons displaced by the development and financial assistance and reimbursement of expenses, including litigation expenses and expenses incident to the transfer of title, in accordance with the standards and provisions of the uniform relocation assistance and real property acquisition policies act of 1970, Public Law 91-646, 84 Stat. 1894.**

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan.

- O. A Plan for Compliance with the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 and Act 227 of the Public Acts of 1972.**

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan.

- P. Other material that the authority, local public agency, or governing body considers pertinent.**

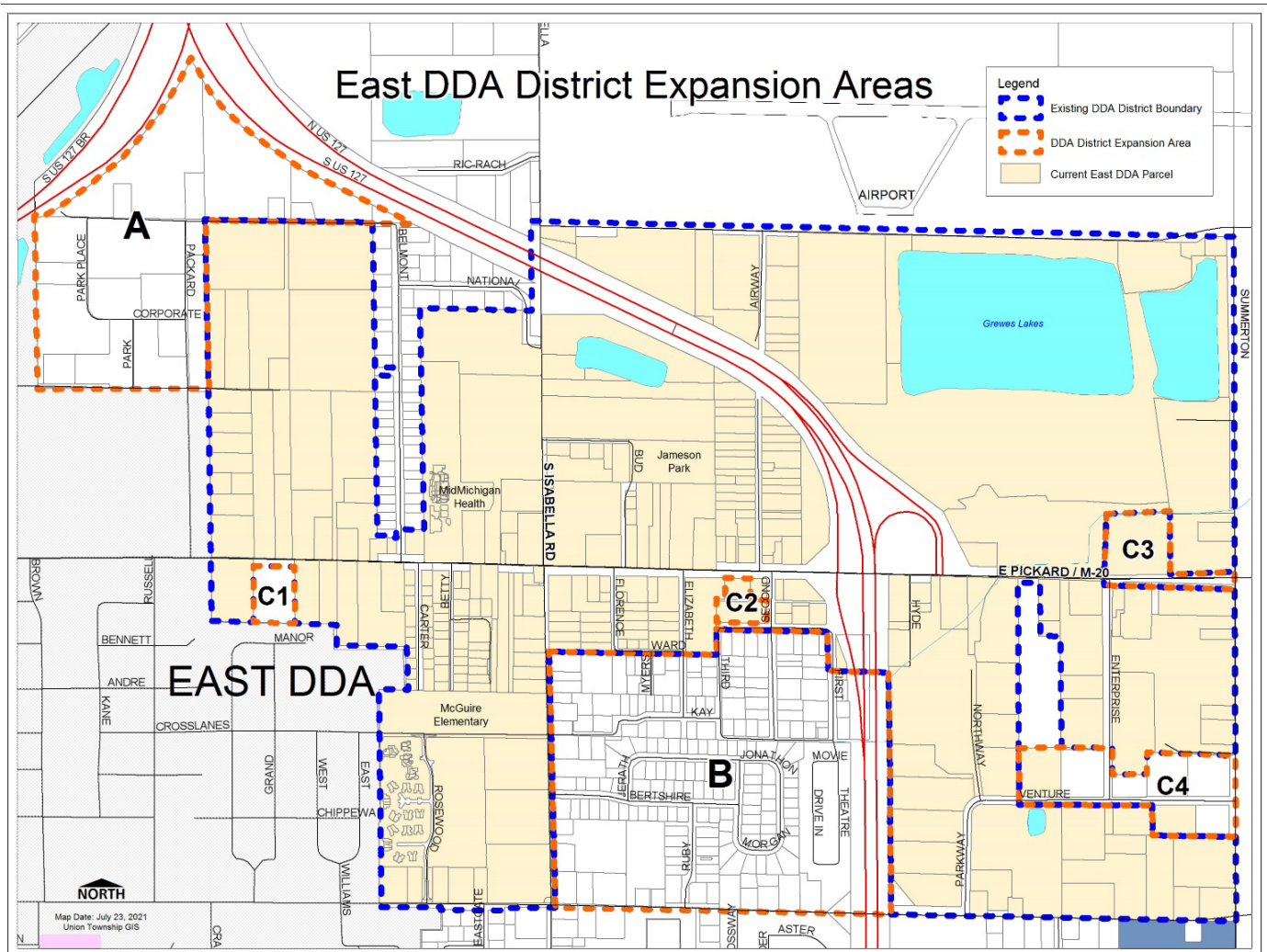
Such other material will be identified or added as the need arises.

- Q. DEVELOPMENT AREA CITIZENS COUNCIL.**

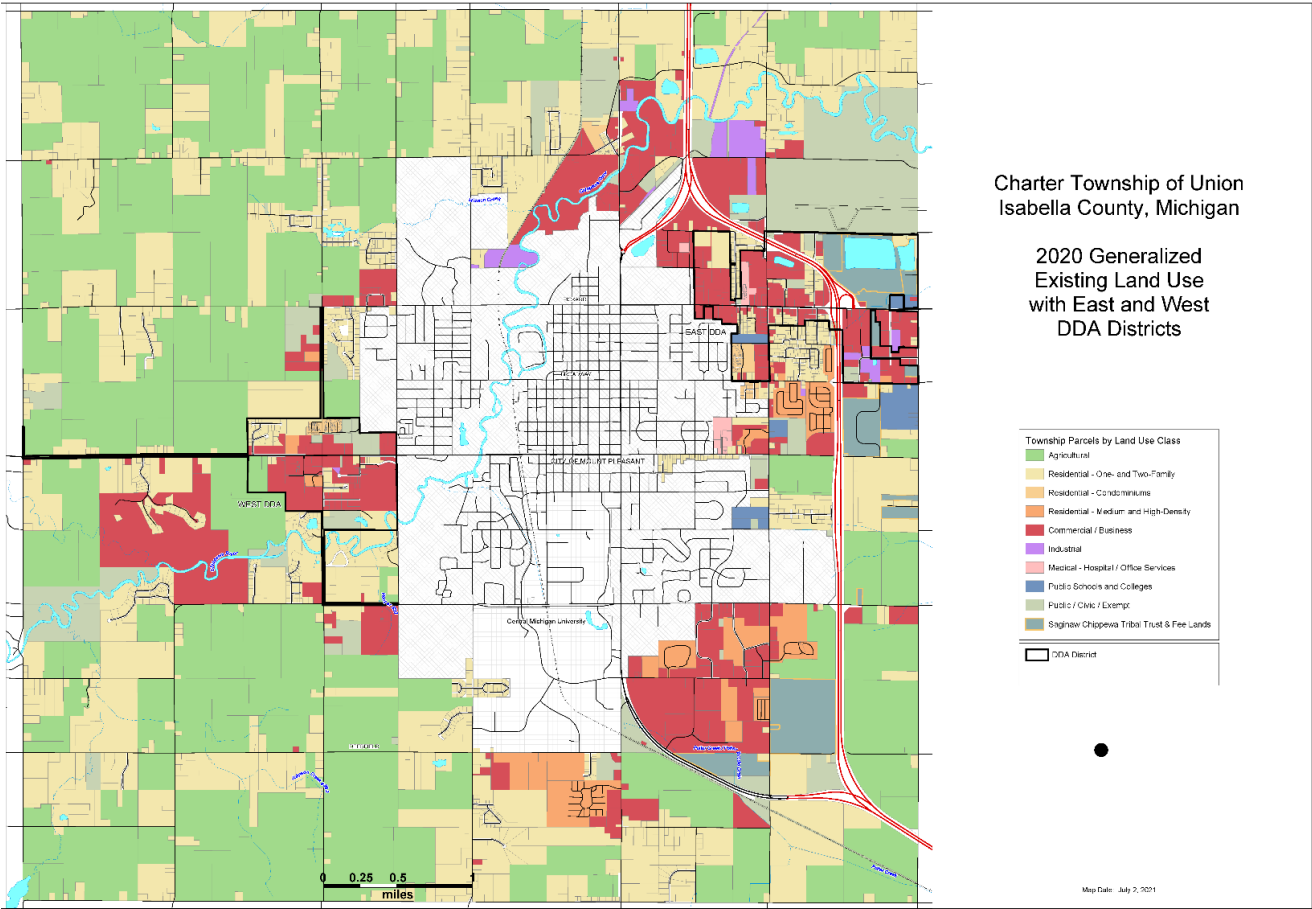
Since the development area of the DDA has more than 100 full-time primary residents, a development area citizens council will be formed as an advisory body to the Board of the DDA. The development area citizens council shall be established by the governing body and shall consist of not less than 9 members. The members of the development area citizens council shall be residents of the development area and shall be appointed by the governing body. A member of a development area citizens council shall be at least 18 years of age and the development area citizens council shall be representative of the development area.

Periodically a representative of the authority responsible for preparation of a development or tax increment financing plan within the development area shall consult with and advise the development area citizens council regarding the aspects of a development plan, including the development of new housing for relocation purposes located either inside or outside of the development area. The consultation shall begin before any final decisions by the authority and the governing body regarding a development or tax increment financing plan. The consultation shall continue throughout the preparation and implementation of the development or tax increment financing plan.

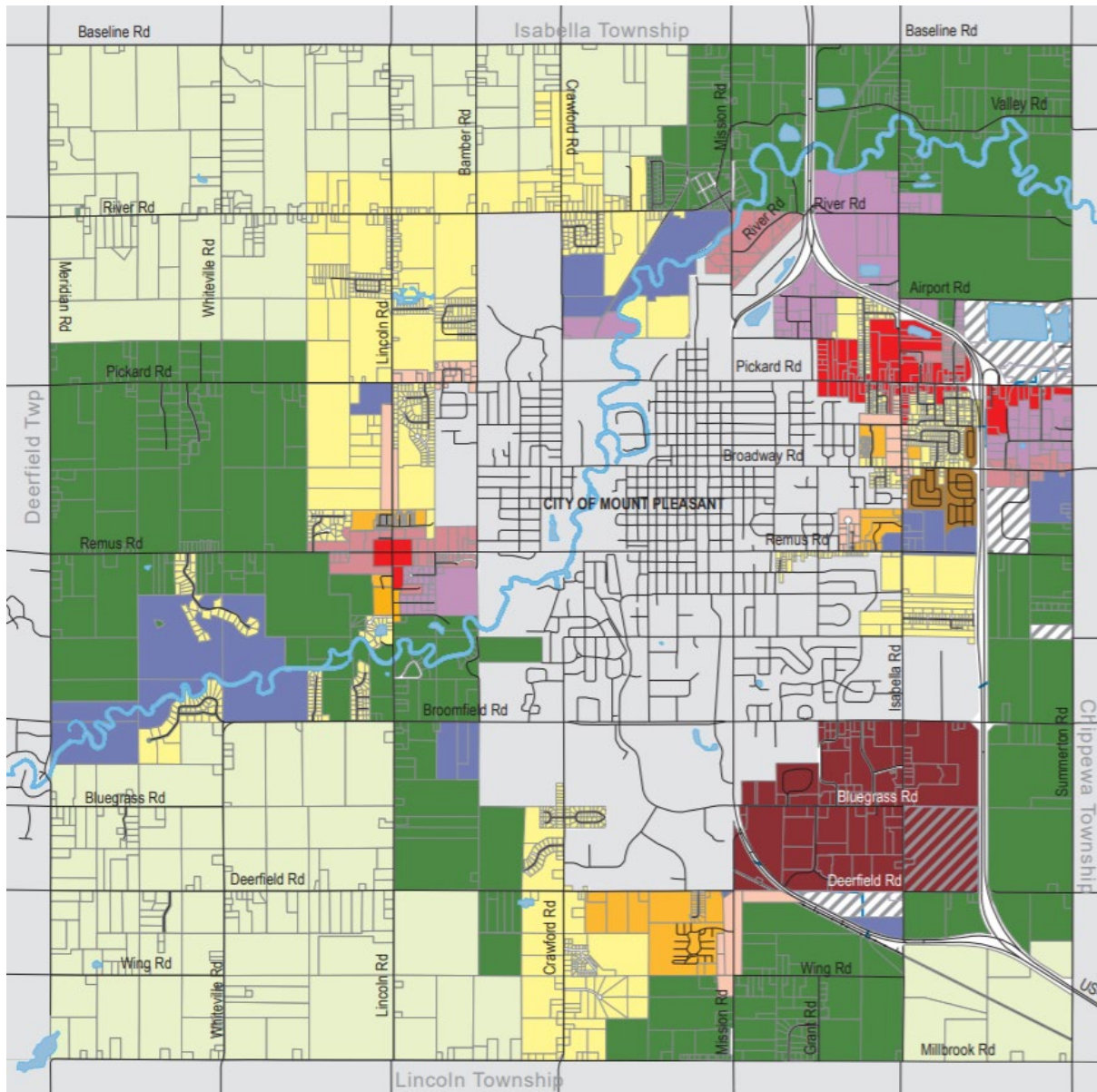
Map I: East DDA District Boundaries with Expansion Areas















Map 2: Existing Land Use



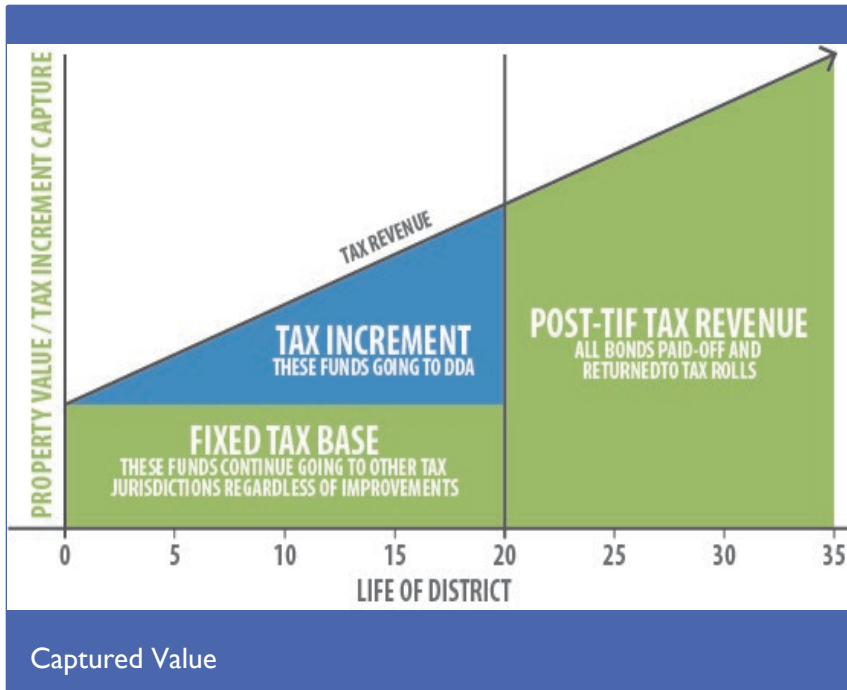
Map 3: Future Land Use



- | | |
|---|---|
|  Rural Preservation |  Neighborhood Service |
|  Rural Buffer |  Community Commercial |
|  Residential |  Commercial/Industrial Mix |
|  Residential- Attached |  Industrial/Employment |
|  Manufactured Housing |  Recreation/Institutional |
|  Bluegrass Center Area |  Tribal Trust Lands |

TAX INCREMENT FINANCING PLAN

EXPLANATION OF THE TAX INCREMENT PROCEDURE



Tax Increment Financing (TIF financing) is a method of funding public investments in an area slated for (re)development by capturing, for a time, all or a portion of the increased tax revenue that may result from increases in property values, either as a result of (re)development or general market inflation. The concept of tax increment financing is applied only to the Development Area for which a development plan has been prepared by the Downtown Development Authority and adopted by the City Council.

As provided in PA 57 of 2018, tax increment financing is an effective tool for financing redevelopment and

planning of designated development areas within a Downtown Development Authority District. TIF financing can be used to fund facilities, structures, or improvements within the District and to: 1) market businesses within the District; 2) plan for property within the District; 3) acquire land; 4) improve sites; 5) construct buildings; 6) close the financing “gap” for projects; and 7) administer the Development Plan. Because TIF financing involves capture of tax revenue for certain parcels, TIF dollars must be used for improvements that will generally benefit those same parcels.

“Captured Taxable Value” can be described as the difference in amount in any year of the Plan in which the current assessed value exceeds the initial assessed value. “Current Taxable Value” is the amount of value upon which taxes are based for the current year, also called the Taxable Value. “Initial Taxable Value” represents the assessed value of properties at the time the DDA was established or updated, in this case 1985. Tax exempt properties are represented as a zero value in the Plan, since no tax increments will be collected for that site, regardless of increases in actual property value. The difference between the initial taxable value (base year total) and the current taxable value (current year total) is the value of property for which taxes can be captured and (re)invested by the DDA.

I. Increase in taxable value. The initial taxable value (“SEV”) for this plan is the taxable value of all real and personal property in the development area as determined on November 21, 1985. This is commonly considered the SEV for 1985. As shown in Table I, the base value of real property in the District is \$8,715,667.

Estimated Taxable Value Increase
 Estimated Tax Capture Value 2021-2041

EAST FISCAL YEAR	ESTIMATED Projected Increase	ANNUAL TAXABLE VALUE	CAPTURED TAXABLE VALUE
<i>Base Year, 1985 = \$8,715,667</i>			
2021	2.0%	69,149,256	60,433,589
2022	2.0%	69,149,256	61,816,574
2023	2.0%	69,149,256	63,227,219
2024	2.0%	69,149,256	64,666,077
2025	2.0%	69,149,256	66,133,712
2026	2.0%	69,149,256	67,630,699
2027	2.0%	69,149,256	69,157,626
2028	2.0%	69,149,256	70,715,092
2029	2.0%	69,149,256	72,303,707
2030	2.0%	69,149,256	73,924,095
2031	2.0%	69,149,256	75,576,890
2032	2.0%	69,149,256	77,262,741
2033	2.0%	69,149,256	78,982,310
2034	2.0%	69,149,256	80,736,269
2035	2.0%	69,149,256	82,525,308
2036	2.0%	69,149,256	84,350,127
2037	2.0%	69,149,256	86,211,443
2038	2.0%	69,149,256	88,109,985
2039	2.0%	69,149,256	90,046,498
2040	2.0%	69,149,256	92,021,742
2041	2.0%	69,149,256	94,036,490

taxable base reset year

The purpose of the Tax Increment Financing Plan is to ensure that revenues from tax increment capture will be sufficient to cover anticipated costs, especially when it comes to bond debt. Therefore, some assumptions are involved in order to project property values into the future to determine anticipated revenues. A modest increase in property values was assumed. A conservative growth rate of 2.0% was used in the projections for future TIF revenue.

2. Capturable Taxable Value. A limited amount of development is expected over the entire DDA District, as shown in Table 2. To provide conservative estimates, the TIF revenues are based on increases in property values based on the market, not improvements to property.

**Table 2
Union Township EAST DDA Total Projected Revenues**

FY	Taxable Value	Tax Increment Captured	Millage Multiplier	Tax Increment Revenue
1985	\$8,715,667		0.01292910	
2021	\$69,149,256	\$60,433,589	0.01292910	\$781,352
2022	\$70,532,241	\$61,816,574	0.01292910	\$799,233
2023	\$71,942,886	\$63,227,219	0.01292910	\$817,471
2024	\$73,381,744	\$64,666,077	0.01292910	\$836,074
2025	\$74,849,379	\$66,133,712	0.01292910	\$855,049
2026	\$76,346,366	\$67,630,699	0.01292910	\$874,404
2027	\$77,873,293	\$69,157,626	0.01292910	\$894,146
2028	\$79,430,759	\$70,715,092	0.01292910	\$914,282
2029	\$81,019,374	\$72,303,707	0.01292910	\$934,822
2030	\$82,639,762	\$73,924,095	0.01292910	\$955,772
2031	\$84,292,557	\$75,576,890	0.01292910	\$977,141
2032	\$85,978,408	\$77,262,741	0.01292910	\$998,938
2033	\$87,697,977	\$78,982,310	0.01292910	\$1,021,170
2034	\$89,451,936	\$80,736,269	0.01292910	\$1,043,847
2035	\$91,240,975	\$82,525,308	0.01292910	\$1,066,978
2036	\$93,065,794	\$84,350,127	0.01292910	\$1,090,571
2037	\$94,927,110	\$86,211,443	0.01292910	\$1,114,636
2038	\$96,825,652	\$88,109,985	0.01292910	\$1,139,183
2039	\$98,762,165	\$90,046,498	0.01292910	\$1,164,220
2040	\$100,737,409	\$92,021,742	0.01292910	\$1,189,758
2041	\$102,752,157	\$94,036,490	0.01292910	\$1,215,807
	Total Taxable Value Captured	\$1,599,868,194	Total TI Revenue	\$20,684,856

3. Tax Increment Capture. For each year within the term of the plan, the Finance Director transmits directly to the DDA, the applicable portion of the tax levy set by the taxing units on the real property in the development area, including that portion of any commercial facilities tax levied pursuant to P.A. 255 of 1978 and that portion on an industrial facilities tax levied pursuant to PA 198 of 1974. Voted and separately identified debt millage revenues do not come to the DDA but go directly to the intended taxing units.

“Tax increment revenues” means the amount of ad valorem property taxes and specific local taxes attributable to the application of the levy of all taxing jurisdictions upon the captured assessed value of real and personal property in the Development Area. Tax increment revenues do not include any of the following:

- a. Taxes under the state education tax act, 1993 PA 331, MCL 211.901 to 211.906.
- b. Taxes levied by local or intermediate school districts.
- c. Ad valorem property taxes attributable either to a portion of the captured assessed value shared with taxing jurisdictions within the jurisdictional area of the authority or to a portion of value of property that may be excluded from captured assessed value or specific local taxes attributable to the ad valorem property taxes.
- d. Ad valorem property taxes excluded by the tax increment financing plan of the authority from the determination of the amount of tax increment revenues to be transmitted to the authority or specific local taxes attributable to the ad valorem property taxes.
- e. Ad valorem property taxes exempted from capture under section 18(5) or specific local taxes attributable to the ad valorem property taxes.
- f. Ad valorem property taxes specifically levied for the payment of principal and interest of obligations approved by the electors or obligations pledging the unlimited taxing power of the local governmental unit or specific taxes attributable to those ad valorem property taxes.

To utilize tax increment financing, the DDA must prepare a development plan and a tax increment financing plan. Both plans are submitted to the Township Board, who must approve the plans. These plans may be amended in the future to reflect changes desired by the DDA or the Township. All amendments must follow the procedures of the Act.

Maximum Amount of Bonded Indebtedness to be Incurred

The Downtown Development Authority may explore the possibility of bonding against future revenues to supply the funds required to accomplish larger public improvement projects. The extent of the indebtedness and the timing of the debt retirement will be determined by the extent of the tax increment revenues. The maximum indebtedness, as stated in PA 57 of 2018, cannot exceed the ability to service the debt from tax increments. Only 80% of projected revenues are available as debt service funds. Future plan updates will consider outstanding debt as it plans for continued investment in the District.

Duration of the Development Program

The remaining duration of the tax increment financing plan is twenty (20) years, commencing upon approval by the Union Township EDA Board in 2021 and will cease with tax collections due in December 2041, unless this plan is amended to extend or shorten its duration.

Statement of the Estimated Impact of Tax Increment Financing on Taxing Jurisdictions in which the Development Area is Located.

The DDA is eligible to capture tax increment revenues from The DDA is eligible to capture tax increment revenues from County Operating, ICTC - Isabella County Transportation Commission, Medical Care Facility (MCF), Commission on Aging (COA), County Parks and Recreation, Township Operating, and Township Fire Department. For a complete listing of taxing jurisdictions, please see Table 3 below.

The most important impact on the affected taxing jurisdictions is that the amount of revenue they currently receive from property within the District will not increase during the life of the Plan. Once the base value of the District is set, the DDA will capture the revenue from any increase in property value. The base amount would still flow to the appropriate taxing jurisdictions. In other words, the revenue to each taxing jurisdiction would effectively be frozen at the base value for the entire term of the DDA Plan.

The impact of tax increment financing on the revenues of all taxing properties is illustrated in Table 3 on the following page.

Table 3: Union Township East DDA Total Projected Revenue by Taxing Jurisdiction

EAST	ESTIMATED	ANNUAL	CAPTURED	County Operating	ICTC - Isabella County Transportation Commission	Medical Care Facility (MCF)	Commission on Aging (COA)	County Parks and Recreation	Township Operating	Township Fire	TAX INCREMENT REVENUE
FISCAL YEAR	Projected Increase	TAXABLE VALUE	TAXABLE VALUE	0.0066100	0.0008620	0.0009795	0.0008776	0.0003500	0.0010000	0.0022500	0.012929100
Base Year	1985	\$8,715,667									
2021 (reset year)	2.0%	\$69,149,256	\$60,433,589	\$399,466	\$52,094	\$59,195	\$53,037	\$21,152	\$60,434	\$135,976	\$781,352
2022	2.0%	\$70,532,241	\$61,816,574	\$408,608	\$53,286	\$60,549	\$54,250	\$21,636	\$61,817	\$139,087	\$799,233
2023	2.0%	\$71,942,886	\$63,227,219	\$417,932	\$54,502	\$61,931	\$55,488	\$22,130	\$63,227	\$142,261	\$817,471
2024	2.0%	\$73,381,744	\$64,666,077	\$427,443	\$55,742	\$63,340	\$56,751	\$22,633	\$64,666	\$145,499	\$836,074
2025	2.0%	\$74,849,379	\$66,133,712	\$437,144	\$57,007	\$64,778	\$58,039	\$23,147	\$66,134	\$148,801	\$855,049
2026	2.0%	\$76,346,366	\$67,630,699	\$447,039	\$58,298	\$66,244	\$59,353	\$23,671	\$67,631	\$152,169	\$874,404
2027	2.0%	\$77,873,293	\$69,157,626	\$457,132	\$59,614	\$67,740	\$60,693	\$24,205	\$69,158	\$155,605	\$894,146
2028	2.0%	\$79,430,759	\$70,715,092	\$467,427	\$60,956	\$69,265	\$62,060	\$24,750	\$70,715	\$159,109	\$914,282
2029	2.0%	\$81,019,374	\$72,303,707	\$477,928	\$62,326	\$70,821	\$63,454	\$25,306	\$72,304	\$162,683	\$934,822
2030	2.0%	\$82,639,762	\$73,924,095	\$488,638	\$63,723	\$72,409	\$64,876	\$25,873	\$73,924	\$166,329	\$955,772
2031	2.0%	\$84,292,557	\$75,576,890	\$499,563	\$65,147	\$74,028	\$66,326	\$26,452	\$75,577	\$170,048	\$977,141

2032	2.0%	\$85,978,408	\$77,262,741	\$510,707	\$66,600	\$75,679	\$67,806	\$27,042	\$77,263	\$173,841	\$998,938
2033	2.0%	\$87,697,977	\$78,982,310	\$522,073	\$68,083	\$77,363	\$69,315	\$27,644	\$78,982	\$177,710	\$1,021,170
2034	2.0%	\$89,451,936	\$80,736,269	\$533,667	\$69,595	\$79,081	\$70,854	\$28,258	\$80,736	\$181,657	\$1,043,847
2035	2.0%	\$91,240,975	\$82,525,308	\$545,492	\$71,137	\$80,834	\$72,424	\$28,884	\$82,525	\$185,682	\$1,066,978
2036	2.0%	\$93,065,794	\$84,350,127	\$557,554	\$72,710	\$82,621	\$74,026	\$29,523	\$84,350	\$189,788	\$1,090,571
2037	2.0%	\$94,927,110	\$86,211,443	\$569,858	\$74,314	\$84,444	\$75,659	\$30,174	\$86,211	\$193,976	\$1,114,636
2038	2.0%	\$96,825,652	\$88,109,985	\$582,407	\$75,951	\$86,304	\$77,325	\$30,838	\$88,110	\$198,247	\$1,139,183
2039	2.0%	\$98,762,165	\$90,046,498	\$595,207	\$77,620	\$88,201	\$79,025	\$31,516	\$90,046	\$202,605	\$1,164,220
2040	2.0%	\$100,737,409	\$92,021,742	\$608,264	\$79,323	\$90,135	\$80,758	\$32,208	\$92,022	\$207,049	\$1,189,758
2041	2.0%	\$102,752,157	\$94,036,490	\$621,581	\$81,059	\$92,109	\$82,526	\$32,913	\$94,036	\$211,582	\$1,215,807
TOTAL											\$20,684,856

County Operating	6.6100
ICTC - Isabella County Transportation Commission	0.8620
Medical Care Facility (MCF)	0.9795
Commission on Aging (COA)	0.8776
County Parks and Recreation	0.3500
Township Operating	1.0000
Township Fire	2.2500
Total	12.9291

Plan for the Expenditure of Captured Taxable Value by the Authority

1. **Estimate of Tax Increment Revenues.** Table 3 summarizes the estimated tax increment revenues by year. The projected annual growth in taxable value is estimated at 2% annually and is shown in Tables 1 and 2 above. Additional increases in the assessed valuation for the Development Area and consequent tax increment revenues may result from other new construction, rehabilitation, expansion, or additional appreciation in property values beyond the estimated 2% figure. These increases are beyond those projected in this plan but if such increases result, the tax increment revenues will be spent according to this plan to accelerate the implementation of the public improvement program.
2. **Expenditure of Tax Increment Revenues.** Any additional tax increment revenues beyond those projected in this plan will:
 - a. Be used to expedite any debt service;
 - b. Further the implementation of the public improvement program;
 - c. Go into a local development grant & loan fund; or
 - d. Be returned, pro-rata, to the taxing units.

Should the tax increment revenues be less than projected, the DDA may choose to:

- a. Collect and hold the captured revenues until a sufficient amount is available to implement specific public improvements;
- b. Consider implementing public improvement projects based upon the ability to match existing funds with expenditures while seeking out additional funding sources; or
- c. Amend the development plan and/or tax increment financing plan to allow for alternative projects and funding.

APPENDIX A: BASE PARCEL DATA

**TABLE 4
PARCELS IN THE EAST
DDA DISTRICT**

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14-152-00-018-00

APPENDIX B: LEGAL DESCRIPTION

(See Map I)

Area A:

The area is bounded on the south by Corporate Dr, on the west by the township line and N US 127, on the north by US 127, on the east by S US 127, then on the north by E Airport Rd, and then east of Packard Rd. The designated development area shall encompass the entire Tax Increment Finance Authority District, and its legal boundaries are: Corporate Dr from the western city limit north to N US 127 BR, N US 127 northeast to connect with S US 127, S US 127 southeast to Belmont Dr, E Airport Rd west, south parallel to Packard Rd to Corporate Dr, Corporate drive west to the township line.

Area B:

The area is bounded on the south by Broadway Rd, on the west by Isabella Rd, on the north by Ward and Palmer, and on the east by N US 127. The designated development area shall encompass the entire Tax Increment Finance Authority District, and its legal boundaries are: Broadway Rd from the southwest north on Isabella Rd, Isabella road east to Third, north on Third to Palmer, south on first and east to the eastern side of N US 127, then south along N US 127 to Broadway Rd, west on Broadway Rd to Isabella Rd.

Area C1:

The area is bounded on the north by Pickard Rd. T14N R4W, SEC 14, N 500 FT OF E 1/2 OF W 1/2 OF NW 1/4 OF NE 1/4.

Area C2:

The area is bounded on the north by Palmer, on the west by 2nd St, on the south by E Pickard Rd, and west of Elizabeth Rd. The designated development area shall encompass the entire Tax Increment Finance Authority District, and its legal boundaries are: E Palmer Rd west to 2nd St, south to Pickard Rd east to the southeast corner of 071-00-015-00, north to the property line, east along south property line of 071-00-017-00 to the southeast corner, north to Palmer Rd.

Area C3:

The area is bounded on the north by the Mid Michigan Community College property line, on the east by S Summerton Rd, on the south by E Pickard Rd, and on the west by the Mid Michigan Community College property line. The designated development area shall encompass the entire Tax Increment Finance Authority District, and its legal boundaries are: from the southwest corner of the Mid Michigan Community College property line to the northwest corner, east along the property line to S Summerton Rd, south toe E Pickard Rd, west to the southwest corner of the Mid Michigan Community College property line.

Area C4:

The area is bounded on the south by the property lines of 152-00-018-00, 152-00-019-00, and 152-00-020-00 and Venture Way, on the west by the property line of 152-00-020-00 and 152-00-007-00, on the north by the property lines of 152-00-007-00, 152-00-008-00, 152-00-015-00, 152-00-016-00, and Saginaw Chippewa 2. The designated development area shall encompass the entire Tax Increment Finance Authority District, and its legal boundaries are: from the southwest corner of 152-00-007-00 to the northwest corner, east to the northeast corner of 152-00-008-00, south to the northwest corner of 152-00-015-00 east to the northeast corner, north to the northwest corner of 152-00-016-00, east to S Summerton Rd, south to the southeast corner of 152-00-018-00, west to the southwest corner of 152-00-020-00, north to Venture Way, west to the southwest corner of 152-00-007-00.

To: Board of Trustees **DATE:** October 8, 2021
FROM: Mark Stuhldreher, Township Manager **DATE FOR CONSIDERATION:** 10/13/2021
ACTIONS REQUESTED: To introduce and conduct a First Reading for the West DDA Development Plan and Tax Increment Finance Plan Amendatory Ordinance.

Current Action Emergency
 Funds Budgeted: If Yes N/A Account _____
 Finance Approval _____

BACKGROUND INFORMATION

For the past eleven months, the project consultants at CIB Planning have been working with staff and the Economic Development Authority (EDA) Board to prepare updates to the development and tax increment financing plans for the West DDA District. The current plans are set to expire on December 31, 2021. The updated West DDA District Tax Increment Financing Plan would extend the terms of the DDA District for an additional 20 years to provide the time needed to complete the scope of work outlined in the updated Development Plan for the District.

On August 17, 2021, the EDA Board took action to start the formal adoption process required by Act 57 by adopting Resolution Number EDA2021-02 to verify a public need to amend the current West DDA District development and tax increment financing plans, to indicate whether boundary changes are proposed as part of the plan amendments, to confirm that the revised potential project list and tax capture schedule for each DDA District better reflects the needs of the Township and the development community, and to approve the amended plans for the District.

On August 25, 2021, the Board of Trustees took action to set an October 13, 2021 public hearing date for the updated West DDA District plans. On September 28, 2021, the EDA Board also held a special informational meeting to invite comments and questions from the affected taxing jurisdictions.

Public hearing notices were published twice in the newspaper as required by Act 57. Notices were also sent via regular first class mail to all taxpayers of record, posted in multiple District locations, and mailed to the taxing jurisdictions via certified mail in accordance with Act 57 requirements.

Copies of the updated plans are included in the agenda packet. Also included for reference purposes is a copy of the "Implementation Strategy" document for the West DDA District. This document is not formally adopted with the West DDA District Development Plan, but rather is intended to serve as a tool for the EDA Board and Township staff to use to guide implementation of the plan.

SCOPE OF ACTIVITY

To introduce and conduct a First Reading for the West DDA Development Plan and Tax Increment Finance Plan Amendatory Ordinance.

JUSTIFICATION

Adoption of updated development and tax increment financing plans for the West DDA District is necessary to allow this District to continue to capture property tax revenues after 2021. These updates and extensions of the duration of the tax increment financing plans are necessary to support the completion of all projects and activities of the Economic Development Authority Board as identified in the updated West DDA District Development Plan.

BOARD OF TRUSTEES GOALS ADDRESSED

Board of Trustees goals addressed by the current and planned EDA projects and activities under the adopted Development Plan for the West DDA District (From Policy 1.0: Global End):

- 1. Community well-being and common good**
- 2. Prosperity through economic diversity, cultural diversity, and social diversity**
- 3. Safety**
- 4. Health**
- 5. Natural Environment**
- 6. Commerce**

COSTS

The project is proceeding in accordance with an approved contract entered into between the EDA Board and CIB Planning, and in accordance with funding budgeted for this purpose in the FY2021 approved budget for the West DDA District funds.

TIMETABLE

This project to prepare and adopt updated development and tax increment financing plans for the West DDA District and to extend the term of the District is anticipated to be completed in November of this year. A Second Reading is anticipated to be held on October 27, 2021, following which the Board will be asked to consider adoption.

ACTION REQUESTED

To introduce and conduct a First Reading for the West DDA Development Plan and Tax Increment Finance Plan Amendatory Ordinance.

Resolved by _____ Seconded by _____

- Yes:
- No:
- Absent:

**CHARTER TOWNSHIP OF UNION
ISABELLA COUNTY, MICHIGAN**

WEST DDA DEVELOPMENT PLAN AND TAX INCREMENT FINANCE PLAN AMENDATORY ORDINANCE

ORDINANCE NO. _____

[An ordinance adopted under the provisions of the Recodified Tax Increment Financing Act (Public Act 57 of 2018, as amended, being MCL 125.4101 et seq.) and the Charter Township Act (Public Act 359 of 1947, as amended, being MCL 42.1 – MCL42.34) to adopt updated Development Plan and Tax Increment Finance Plan for the West Downtown Development Authority District, and to provide for publication and an effective date.]

WHEREAS, the Township’s Economic Development Authority Board has prepared and recommended for adoption of the updated Development Plan and Tax Increment Finance Plan for the West Downtown Development Authority District; and

WHEREAS, the Board of Trustees has held a public hearing on the updated plans after required notices were posted, published, and mailed in accordance with the requirements of the Recodified Tax Increment Financing Act (Public Act 57 of 2018, as amended, being MCL 125.4101 et seq.).

NOW, THEREFORE, THE CHARTER TOWNSHIP OF UNION, ISABELLA COUNTY, MICHIGAN HEREBY ORDAINS:

Section 1.0 Review and Determination of Public Purpose.

Following a duly noticed public hearing on the updated Development Plan and Tax Increment Finance Plan for the West Downtown Development Authority District, which were recommended to the Board of Trustees on August 17, 2021 by the Economic Development Authority (EDA) Board, which was established by Board of Trustees resolution for the purpose of governing the West DDA District in accordance with requirements of the Recodified Tax Increment Financing Act (Public Act 57 of 2018, as amended). The Board of Trustees has reviewed and found the plans to meet the following standards and criteria, as set forth in Act 57:

- (a) The Development Plan meets the requirements set forth in Section 125.4217 of Act 57, and the Tax Increment Financing Plan meets the requirements set forth in Section 125.4214 14 of Act 57.
- (b) The scope of proposed activities listed in the Development Plan is reasonable and necessary to carry out the purposes of Act 57.
- (c) The Development Plan is consistent with the Township’s Master Plan.
- (d) Public services, such as fire and police protection and utilities, are or will be adequate to serve the development area.
- (e) The proposed method of financing the development is feasible and the West DDA has the ability to arrange financing if needed.
- (f) Any land included within the development area to be acquired is reasonably necessary to carry out the purposes of the plans and of Act 57 in an efficient and economically satisfactory manner.
- (g) Potential changes to zoning, roads, intersections, and utilities are reasonably necessary for the project and for the Township.

In deliberations toward the adoption of this Ordinance, the Board of Trustees has determined that the adoption and implementation of the updated Development Plan and Tax Increment Finance Plan for the West Downtown Development Authority District constitutes a public purpose.

Section 2.0 Approval of the updated West DDA Plans.

Premised upon the determination made in Section 1.0 of this Ordinance and upon further finding that the execution of the updated Development Plan and Tax Increment Finance Plan for the West Downtown Development Authority District appear to be in the best interest of the Township, the updated plans are hereby approved and adopted by reference. No additional amendments to the plans shall be effective unless and until submitted to and approved by the Board of Trustees in accordance with the procedures established by Act 57.

Section 3.0 Repealer.

This Ordinance hereby repeals any ordinances or parts thereof in conflict herewith.

Section 4.0 Severability.

The provisions, sections, sentences and phrases of this Ordinance are declared to be severable and if any such portion is declared unconstitutional or invalid for any reason by a court of competent jurisdiction, such finding shall in no way affect or invalidate the remainder of this Ordinance.

Section 5.0 Publication.

The Clerk for the Township shall cause this Ordinance to be published in the manner required by law.

Section 6.0 Effective Date.

This Ordinance was approved and adopted by the Charter Township of Union Board of Trustees, Isabella County, Michigan, on _____, after a first reading by the Board of Trustees on _____, and publication after the first reading as required by Michigan Act 359 of 1947, as amended. This Ordinance shall become effective immediately upon publication of a summary of the ordinance and notice of adoption in a newspaper of general circulation in the Township, following adoption by the Township Board of Trustees.

RESOLUTION NO. EDA2021-02

**A RESOLUTION TO APPROVE AMENDING THE WEST DOWNTOWN DEVELOPMENT AUTHORITY
DISTRICT DEVELOPMENT AND TAX INCREMENT FINANCING PLANS**

WHEREAS, Public Act 57 of 2018 (Recodification Tax Increment Financing Act, MCL 125.4201 - 125.4230) authorizes a township to establish a Downtown Development Authority (DDA) District when it is in the best interests of the public to halt property value deterioration and increase property tax valuation, where possible, in its business district; to eliminate the causes of that deterioration; and to promote economic growth; and

WHEREAS, The Economic Development Authority (EDA) Board, which was established by Board of Trustees resolution for the purpose of governing the West DDA District in accordance with Act 57 requirements, has discussed the need to amend the current West DDA District development and tax increment financing plans to provide resources necessary for development project funding; and

WHEREAS, Section 125.4203 of Act 57 requires an ordinance be adopted by the Township Board of Trustees indicating the jurisdictional area meets certain legislative requirements and to set a date and time for a public hearing concerning amendment of the West DDA District development and tax increment financing plans.

THEREFORE BE IT RESOLVED by the EDA Board that:

1. The EDA Board finds there is a public need to amend the current West District DDA development and tax increment financing plans to halt property value deterioration and increase property tax valuation, where possible, in the district; to eliminate the causes of that deterioration; and to promote economic growth.
2. That the proposed amendments to the West DDA District development plan will not change the boundaries of the DDA District, of which the primary roads in the District include E. Remus Road (M-20) and S. Lincoln Road;
3. That the amended West DDA District development and tax increment financing plans incorporate a revised potential project list and tax capture schedule that better reflects the needs of the Township and the development community; and
4. That the EDA Board approves the amended West DDA District development and tax increment financing plans and respectfully requests that the Board of Trustees call for a public hearing regarding the proposed plan amendments and notify the taxing jurisdictions, providing an opportunity to meet with the Township concerning the plan amendments.

AS ADOPTED BY ROLL CALL VOTE



Thomas Kequom, EDA Board Chair

Date Aug 19, 2021

Charter Township of Union West DDA District Implementation Strategy

2021



Charter Township of Union

Draft

Adopted xxx xx, 2021

Implementation Strategy Background & Overview

The purpose of the Downtown Development Authority (DDA) is to correct and prevent deterioration and promote economic growth within Union Township's West principal business district. A development plan is one tool the Economic Development Authority (EDA) and DDA rely upon for identifying and implementing projects aimed at spurring new private investment. Supporting the development plan is an implementation strategy, or a matrix of projects both planned and proposed that is intended to be located outside the plan, in a workbook, so a new adoption process is not needed when future cost estimates are generated. The project implementation strategy is a matrix that is composed of projects that fall under the category descriptions listed below. The detailed project strategy that follows the category descriptions includes project categories, names and descriptions; priorities, time frames, cost range estimates (once available), and status notes. The matrix is intended to be a living document that can be updated as needed. As a reference, below are the projects that the implementation plan contains.

1. Business Development

The DDA will assist the Economic Development Authority, Planning Commission, local officials, businesspeople, entrepreneurs, etc., in providing an acceptable climate for business investment. Efforts will focus on assisting existing businesses and promoting new businesses that benefit the community. This will likely involve the following projects:

- Institution of a building rehabilitation grant program that provides qualifying applicants funding to improve their building.
- Encouraging property owners and developers to create mixed-use developments, in keeping with District zoning requirements.
- Other potential activities that support and promote local business development.

2. Public Buildings and Spaces

To better create a sense of place at strategic locations in the DDA District, the DDA will support the development and enhancement of public buildings and spaces including: pedestrian plazas, parks, open spaces, gardens, gazebos, sculptures, art, performance areas, walkways, and supporting site amenities, construction of public restrooms, or other similar structures identified as development occurs.

3. DDA Marketing/Development Studies and Promotional Events/Materials

Destination branding and marketing have a key relationship with successful districts. It is an important task to complete once the DDA has identified redevelopment goals and has established its identity within the greater region. Marketing and development attraction studies can be used as tools to attract specific development types or specific developers. Marketing materials (online, print, radio, mailers, billboard rental) can also be prepared for distribution to developers, retailer, and real estate firms promoting Union Township. This may include brochures, exhibits, trade area data, web site materials, social media activities, etc. It is also the Township's desire to create a unified image and market the West DDA District of Union Township as a cohesive business District. To that end, funding can be used for a joint marketing strategy and promotions with involvement of the business community that brings together resources for advertising, special events, and public relations.

4. Building Facade and Sign Improvement Program

Existing signs and structures in the DDA that are in need of upgrade in terms of design, materials and colors can apply for funding under this program. The DDA can allocate resources to pursue the following efforts toward upgrading the appearance of buildings in the District:

- Develop design guidelines or requirements for all buildings and signs in the District with corresponding sketches and pictures
- Develop a program to assist business owners in funding these improvements as a method to encourage implementation of the design guidelines or requirements

5. DDA Property Acquisition

This involves the acquisition of property to accomplish the goals set forth by the DDA. There are times when key pieces of property become available for purchase within the DDA District, which require the DDA to purchase said properties for redevelopment or public purposes. This can also be a tool to assist with blight removal and demolition within the District.

6. Special District & Urban Design Plans

District plans and urban design help to guide the built environment of the District. Many times, these plans focus on form and design elements to enhance the function of the District. Results of these plans can lead to new development projects that have been thoughtfully crafted to create vibrancy and increase density within the District core. These plans also generally result with the development of design-based guidelines for redevelopment of existing sites or development of new sites.

7. Demolition

Occasionally, development opportunities require demolition of existing sites and structures. The DDA can participate in the costs of the demolition process when it is appropriate to spur new development opportunities.

8. Public Infrastructure Improvements

Public improvements cover a wide array of projects including street lighting, streetscape enhancements, water and sewer improvements; electrical improvements, burying of existing and new utilities, storm water improvements, parking improvements, and generally anything else that falls within the public right-of-way, easement, or public realm.

9. Private Infrastructure Improvements

As part of redevelopment, developers are often required to improve private infrastructure or anything on a private property (not in a public right-of way). The DDA is able to assist with offsetting these costs, specifically when it comes to integrated parking structures such as vertical and underground parking, utilities, water and sewer tap fees; soft costs, and others that support density in accordance with local zoning, master plans, and city goals, but may be cost-prohibitive to complete the project. Although these improvements are considered private for funding purposes, they have public benefit and support the redevelopment efforts of the Township and DDA.

10. Site Preparation

Costs associated with site preparation can be significant for both public and private investment. These costs include such activities as clearing and grubbing; compaction and sub-base preparation; cut and fill operations; dewatering, excavation for unstable material, foundation work (to address special soil concerns, retaining walls, temporary sheeting/shoring, specific and unique activities, etc.); anything on private property not in a public right-of-way to support density; and prohibitive costs to allow for greater density in accordance with local zoning, master plans, and Township goals.

11. Environmental Activities

Environmental Activities would include activities beyond what may be supported by the Michigan Department of Environment, Great Lakes and Energy (EGLE) under an approved Brownfield Plan and Act 381 Work Plan to protect human health and the environment, off-set cost-prohibitive environmental costs and insurance needs, etc. This can also include wildlife and habitat preservation, or restoration related to a specific development project or Public Buildings and Spaces under item #2 above.

12. Project-Specific Gap Funding

Recognizing that the cost of mixed-use, traditional development is higher than it is for undeveloped sites, the Township may, at its own discretion, commit project-specific future tax increment capture back to private projects for a specified period of time. The goal is to provide funding to close the “gap” that prevents the project from becoming a reality due to financial feasibility. For example, if the pro-forma for a project indicates that it cannot generate enough income to cover the cost of construction and a reasonable rate of return for a developer/investor, future tax increment can be committed to that development to make it feasible. It can also be used as a tool to attract companies and businesses to the city to create new employment opportunities within the DDA District.

13. Consultation and Operational Expenditures

The Consultation and Operational Expenditures category provides for professional services (staff) and operational activities relating to the DDA. This category is relatively variable and is subject to the level and complexity of future activities taken on by the DDA. Professional services are required to implement the proposals within this Plan and to manage and operate the DDA. This may include, but is not limited to, market studies, grant writing and administration; planning and architectural design; engineering, inspections and construction management services; and environmental assessment and mitigation planning. DDA operational activities may include but are not limited to public notices, mailings, office supplies, administrative support, and equipment usage/rental, etc.

14. Bond Repayments

Tax capture can be used to pay back money that was borrowed for eligible projects under this plan.

BOARD OF TRUSTEES GOALS ADDRESSED

Board of Trustees goals addressed by the current and planned EDA projects and activities, and that would be addressed by EDA authorization of additional economic development projects in the DDA Districts (From Policy 1.0: Global End).

1. Community well-being and common good
2. Prosperity through economic diversity, cultural diversity, and social diversity
3. Safety
4. Health
5. Natural environment
6. Commerce

Annual Projects: East and West DDA
Art Reach of Mid-Michigan Annual Festival of Banners along the Pickard Road corridor in the East DDA District.
Installation and maintenance of twelve (12) Welcome Banners in collaboration with the City of Mount Pleasant, Mount Pleasant Area Convention and Visitors Bureau, and Middle Michigan Development Corporation (East DDA)
Annual funding transfer to the Fire Fund in support of the fire service delivery contract with the City of Mount Pleasant (East DDA and West DDA)
Annual payment to Middle Michigan Development Corporation in support of MMDC economic development activities for the East DDA and West DDA Districts
Annual payment to Mt. Pleasant Area Convention and Visitors Bureau in support of economic development activities for the East DDA and West DDA Districts

Legend	
	New
	Existing, planned, proposed

WEST DDA PROJECT LIST

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
BUSINESS RETENTION & RECRUITMENT				
Organize an association of business owners in the District.	Medium	2-4 years		
Facilitate the creation of an organization of the business owners in the West DDA District to work together on special events, coordinated hours, and other mutually beneficial business-led projects; and to expand opportunities for communication between the EDA and local businesses.				
<i>Global Ends Addressed: Commerce</i>				

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
PUBLIC BUILDINGS & SPACES				
New public landmark or community gathering place.	Medium	2-4 years		
Develop, implement, and fund a project to create a prominent public landmark or focal point amenity for the DDA District, or to create a transformational community gathering place for events. <i>Purpose: Spaces outside of the workplace and home are important for building strong communities. These spaces help people connect within their community around shared interests. If successful, shared spaces not only serve to connect people, but become a place the users will defend and protect.</i> <i>Potential locations: Adjacent to the Isabella Community Credit Union at Lincoln/Remus, or adjacent to Green Acres Mt. Pleasant</i>				The purpose, potential locations, and development options for this project should be considered as part of an update to the West DDA Development Plan.
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				
New recreation area along the Chippewa River.	Medium	2-4 years		
Work with the State of Michigan, Isabella County, and other stakeholders to develop additional public recreation amenities along the Chippewa River in the southern part of the DDA District to support future growth and development in the District.				
<i>Global Ends Addressed: Health; and Natural Environment</i>				

Funding to support preparation of an updated Parks Master Plan	High	1 year	Estimated: \$10,000-\$15,000	
Funding in support of preparation of the West DDA component of an updated Parks and Recreation Master Plan, which would allow the Township to be eligible for state recreation grants.				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Health</i>				
Parks and Recreation Improvements	Medium	2-4 years		
Funding to improve public parks and pocket parks within the District				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Health</i>				

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
DDA MARKETING/DEVELOPMENT STUDIES & PROMOTIONAL EVENTS/MATERIALS				
Branding and marketing activities.	Medium	2-4 years		
Hire marketing and graphic design professionals to develop and implement a marketing and branding campaign for the purpose of establishing the DDA District as a distinct place for the purpose of marketing and attracting customers, businesses, and visitors. This strategy needs to incorporate a range of elements from traditional print and media efforts to social media and Internet promotions.				The Middle Michigan Development Corporation and Mt. Pleasant Area Chamber of Commerce provide some marketing and media services that benefit the West DDA District, but there is more that can be done.
<i>Global Ends Addressed: Commerce</i>				
Wayfinding signage	Medium	2-4 years		
Develop, implement, and fund a project to design and install wayfinding directional signage for community facilities, businesses, and other amenities in the DDA Districts, to assist visitors in reaching their destinations, to increase awareness of key local amenities, and to further develop a unified visual character for the DDA Districts.				Will require coordination with MDOT and the Road Commission, along with acquisition of necessary easements. This project should be considered as part of an overall branding and marketing effort.
<i>Global Ends Addressed: Prosperity through Economic Diversity, Cultural Diversity, and Social Diversity</i>				
District Advertising	Medium	Annually		
Annually promote Development Area businesses through group buying outdoor advertising, print media, television, and radio advertising.				
<i>Global Ends Addressed: Commerce</i>				

Community Events	Medium	Annually		
Assist in the funding of community events that are hosted in park spaces and community gathering spaces				
<i>Global Ends Addressed: Prosperity through Economic Diversity, Cultural Diversity, and Social Diversity</i>				
Streetscape improvements in the West DDA District.	Medium	2-4 years		
Funding in support of projects to plan for, design, and install streetscape and intersection improvements in the West DDA District.				Will require coordination with road authorities. This project should be considered as part of an overall branding and marketing effort.
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
BUILDING FAÇADE AND SIGN IMPROVEMENT PROGRAM				
Grant program – freestanding signs.	High	1-2 years		
Develop and implement a grant program to encourage replacement of existing pole-mounted freestanding signs on lots with monument-style ground-mounted signs. The goal of this program is to establish a more coordinated visual character for business signage and maximize sign visibility in areas where mature street trees tend to obscure taller signs.				
<i>Global Ends Addressed: Commerce</i>				
Grant program – building facades.	High	1-2 years		
Develop and implement a grant program to improve the appearance of existing buildings in the DDA District.				
<i>Global Ends Addressed: Commerce</i>				
Grant program – exterior lighting.	High	1-2 years		
Develop and implement a grant program to encourage replacement of unshielded exterior light fixtures with fully shielded fixtures coordinated pole lighting designs.				
<i>Global Ends Addressed: Commerce</i>				

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
DDA PROPERTY ACQUISITION				
Property acquisition and development.	Medium	2-4 years		
Identify, purchase, market, sell, lease, and/or redevelop strategic properties as catalyst projects to spur further private investment. Public Act 57 of 2018 allows the EDA to improve land and construct, reconstruct, rehabilitate, restore and preserve, equip, improve, maintain, and operate any building, including multiple- family dwellings, in the DDA Districts for the use, in whole or in part, of any public or private person or corporation, or any combination thereof.				The MMDC has identified an unmet need for high bay flex office/ warehouse spaces for business growth and attraction. Potential opportunities should be explored as part of an update to the West DDA Development Plan.
<i>Global Ends Addressed: Community Well-Being and the Common Good; and</i>				
SPECIAL DISTRICT & URBAN DESIGN PLANS				
Establish a budget line item for special projects like feasibility studies, design plans, etc.	Medium	2-4 years		
DEMOLITION				
Fund a program that will help with the cost of demolishing obsolete and vacant structures.	Medium	2-4 years		
PUBLIC INFRASTRUCTURE IMPROVEMENTS				
Stormwater management improvements in the West DDA District.	Medium	2-4 years		
Identify priority locations and design, implement, and fund projects as determined necessary to improve local drainage and enhance stormwater management in the West DDA District.				
<i>Global Ends Addressed: Health</i>				
Additional public utility extensions in the West DDA District.	Medium	2-4 years		
Identify priority locations and design, implement, and fund projects to extend municipal water and sanitary sewer lines as determined necessary to support new development in the West DDA District.				
<i>Global Ends Addressed: Health</i>				

Streetlighting system installations in the West DDA District.	Medium	2-4 years		
Funding in support of projects to eventually complete the installation of new streetlighting along all roads in the West DDA District.				
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				
Lincoln Road – completion of sidewalks on the west side of the road.	High	1-2 years		
Work with the Road Commission to complete the construction of new sidewalks within the county road right-of-way along the west side of Lincoln Road from Broomfield Road north to McDonald Park and the Township Hall.			Funded	
<i>Global Ends Addressed: Safety and Health</i>				
Lincoln Road – mid-block pedestrian crossing improvements.	Medium	2-4 years		
Work with the Road Commission to design, implement, and fund a project to establish a new mid-block pedestrian crossing with warning lights, signage, striping, and sidewalk ramps and connections as needed to facilitate pedestrian access to McDonald Park from the neighborhood to the east.				
<i>Global Ends Addressed: Safety and Health</i>				
Lincoln Road pedestrian safety-oriented intersection improvements.	High	1-2 years		
Work with the Road Commission to design, implement, and fund projects for pedestrian-oriented intersection improvements to the Lincoln Road intersections at Remus Road/M-20 and Broomfield Road.			Funded	
<i>Global Ends Addressed: Safety and Health</i>				
Lincoln Road – sidewalks on the east side of the road.	Medium	2-4 years		
Funding in support of projects to eventually complete construction of new sidewalks within the county road right-of-way along the east side of Lincoln Road from Broomfield Road north to Pickard Rd.				
<i>Global Ends Addressed: Safety and Health</i>				
Lincoln Rd. improvement from E. Remus Rd. to the river	Low	4-6 years		
Work with the Road Commission to improve S. Lincoln Rd. south from E. Remus Rd. to the Chippewa River bridge.				
<i>Global Ends Addressed: Community Well-Being and the Common Good; Commerce</i>				
Burial of overhead utility and communication lines.	Medium	2-4 years		
Funding in support of projects to complete the burial of all utility and communication lines in the DDA District, in coordination with Consumers Energy and other entities with existing overhead lines.				Will require coordination with road improvement projects, utilities agreement, and good communication with local businesses.
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				

Free public WiFi Internet.	Medium	2-4 years		
Develop, implement, and fund a project to provide for an attractive public amenity like free public wireless internet service, either through a public system or through interconnection of private wireless Internet facilities by partnering with businesses. An example of a private partnership interconnection model is the very successful Wireless Ypsi project: [https://meraki.cisco.com/lib/pdf/meraki_cs_ypsilanti_MI.pdf]				Any installation of a new or expanded fiber optic network would also require coordination with and agreement from MDOT and the Road Commission, along with acquisition of any necessary easements for surface facilities.
<i>Global Ends Addressed: Commerce</i>				

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
PRIVATE INFRASTRUCTURE IMPROVEMENTS				
Grant program – beautification.	High	1-2 years	Budgeted	
Develop and implement a grant program to encourage landscaping and other site beautification work on existing lots.				
<i>Global Ends Addressed: Community Well-Being and the Common Good</i>				
Grant program – pedestrian access.	High	1-2 years	Budgeted	
Develop and implement a grant program to encourage installation of private sidewalks and barrier-free pedestrian access improvements from public sidewalks to existing buildings.				
<i>Global Ends Addressed: Safety and Health</i>				
Grant program – bicycle parking improvements.	Medium	2-4 years		
Develop and implement a grant program to encourage installation of secured and sheltered bicycle parking facilities for businesses.				
<i>Global Ends Addressed: Health</i>				
Increase broadband Internet capacity.	Medium	2-4 years		
Develop, implement, and fund a project to enhance the capacity and reliability of broadband Internet communications services in the District to attract and maintain businesses and promote economic development, including a new fiber optic network.				Prior to pursuing these projects, a survey of local businesses should be undertaken to identify current options and unmet needs.
<i>Global Ends Addressed: Commerce</i>				
Grant program – exterior lighting.	High	1-2 years		
Develop and implement a grant program to encourage replacement of				
<i>Global Ends Addressed: Commerce</i>				

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
SITE PREPARATION				
Funding can be used to pay for development site preparation like the removal of foundations, importing of fill, removal of poor soils, etc.	Medium	2-4 years		

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
ENVIRONMENTAL ACTIVITIES				
At times the cost of environmental remediation exceeds tax increment that can be captured under the Brownfield Act and additional funding is needed through the DDA.	Medium	2-4 years		

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
PROJECT-SPECIFIC GAP FUNDING				
Identification and analysis of redevelopment sites	Medium	2-4 years		
Identify sites for commercial and retail redevelopment in the District to rehabilitate existing structures and spur additional economic growth and vitality				
<i>Global Ends Addressed: Community Well-Being and the Common Good; and Commerce</i>				
Application process for TIF Funding	High	1-2 years		
Set up application process for requests to utilize TIF funding for project re/development				
<i>Global Ends Addressed: Commerce</i>				
Funding administration of TIF	Medium	ONGOING		
Audit and administer TIF funding for re/development				
<i>Global Ends Addressed: Commerce</i>				

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
CONSULTATION AND OPERATIONAL EXPENDITURES				
Funding can be used to pay for the assistance of specialized consultants along with EDA operational costs.	Medium	ONGOING		

West DDA District Projects & Descriptions	Priority	Timeframe	Cost Range Estimate	Status/Notes
BOND REPAYMENTS				
Where necessary, borrowed monies can be repaid using DDA capture tax increment.	Medium	ONGOING		

Tax Increment Financing Plan Updates for the WEST Downtown Development Authority District

2021



Charter Township of Union

Draft

Adopted xxx xx, 2021

ACKNOWLEDGEMENTS

The Charter Township of Union West Downtown Development Authority was created in 1985 pursuant to the Downtown Development Authority (Act 197 of 1975), as repealed and recodified under the Recodified Tax Increment Financing Act (Act 57 of 2018). The purpose of the Authority is to correct and prevent deterioration and promote economic growth within the Charter Township of Union's West principal business district.

For their vision and support, the following community leaders should be recognized:

Board of Trustees:

Bryan Mielke, Township Supervisor
Lisa Cody, Township Clerk
Kimberly Rice, Township Treasurer
Connie Lee Bills, DPM, Trustee
Jeff Brown, Trustee
Bill Hauck, Trustee
James Thering, Trustee

Economic Development Authority Board:

Thomas Kequom, Chair
Bryan Mielke, Vice-Chair
Robert Bacon
Richard Barz
Sarvjit Chowdhary
David Coyne
Marty Figg
Cheryl Hunter
Jeff Sweet
James Zalud

Charter Township of Union Staff Members:

Mark Stuhldreher, Township Manager
Rodney C. Nanney, AICP, Community and Economic Development Director
Kim Smith, Public Services Director
Sherrie Teall, Finance Director
Joy Smith, GIS Specialist
Amy Peak, Building Services Clerk

This plan was prepared with assistance from **CIB Planning**



ADOPTED BY ECONOMIC DEVELOPMENT AUTHORITY BOARD: xxxxxx xx, 2021

ADOPTED BY CHARTER TOWNSHIP OF UNION'S BOARD: xxxxxx xx, 2021

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GENERAL OVERVIEW

The Charter Township of Union's West Downtown Development Authority (DDA) was first established in 1985. A DDA is governed by an appointed Board whose primary purpose is to correct and prevent deterioration and promote economic growth within the township's principal business districts. Other purposes of a DDA include reversing declining property values, improving the overall business climate, and increasing employment opportunities. A primary benefit of forming a DDA is the ability to capture the incremental increase in property taxes that result from improvements in the District. These tax revenues are used to finance public improvements and redevelopment projects within the District, which furthers the goal of economic growth.

A Development Plan is one tool the EDA and DDA rely upon for identifying and implementing projects aimed at spurring new private investment. Recommendations also ensure that improvements match the available revenues and can enable the West DDA to become eligible for other funding sources. This Plan was prepared in accordance with the Downtown Development Authority Act, P.A. 57 of 2018. Additional corresponding information can be found in the West DDA District Implementation Strategy that accompanies this plan but is adopted separately by the EDA Board.

A DDA can capture new tax increment in the District (TIF) and use it to pay for improvements that otherwise could not be afforded by either local businesses or government. This funding can also be used to incentivize projects that otherwise are not feasible due to development costs that exceed possible revenue. Moreover, creation of a TIF district does not take away current tax revenue; it just captures new tax revenue that results from improvements to property or an increase in value. It also does not cause payment of increased taxes by property owners in the DDA Districts.

LEGAL BASIS OF THE PLAN

The Development Plan and Tax Increment Financing Plan are prepared pursuant to the requirements of Section 217(2)(a-p) of Act 57 of 2018. More specifically, Section 217 of the Act states that “When a board decides to finance a project in the downtown district by the use of revenue bonds as authorized in section 213 or tax increment financing as authorized in sections 214, 215, and 216, it shall prepare a development plan.”

DEVELOPMENT PLAN REQUIREMENTS

Section 217 also indicates that the development plan shall contain all the following:

A. THE DESIGNATION OF BOUNDARIES OF THE DEVELOPMENT AREA IN RELATION TO HIGHWAYS, STREETS, STREAMS, OR OTHERWISE.

The development area is located within the limits of Union Township (Map 1.) In general, the development area runs just north of Shagbark Street east to just north of Transportation (incorporating Sabel and Eland Court neighborhoods) to S. Bradley Street, west to just north of Ginger’s Way, north along Lincoln, west along Leroy and north along the back of the parcels to the east to Remus meeting up with Buckthorn Street. The legal description is found in Appendix B, Legal Description.

B. THE LOCATION AND EXTENT OF EXISTING STREETS AND OTHER PUBLIC FACILITIES WITHIN THE DEVELOPMENT AREA, DESIGNATING THE LOCATION, CHARACTER, AND EXTENT OF THE CATEGORIES OF PUBLIC AND PRIVATE LAND USES THEN EXISTING AND PROPOSED FOR THE DEVELOPMENT AREA, INCLUDING RESIDENTIAL, RECREATIONAL, COMMERCIAL, INDUSTRIAL, EDUCATIONAL, AND OTHER USES, AND INCLUDING A LEGAL DESCRIPTION OF THE DEVELOPMENT AREA.

Existing land uses in the Development Area are illustrated on Map 2, "Existing Land Use".

C. A DESCRIPTION OF EXISTING IMPROVEMENTS IN THE DEVELOPMENT AREA TO BE DEMOLISHED, REPAIRED, OR ALTERED, A DESCRIPTION OF ANY REPAIRS AND ALTERATIONS, AND AN ESTIMATE OF THE TIME REQUIRED FOR COMPLETION.

The description of existing improvements to be demolished and associated schedule for implementation is provided in this plan under the heading “Proposed Improvements.”

D. THE LOCATION, EXTENT, CHARACTER, AND ESTIMATED COST OF THE IMPROVEMENTS INCLUDING REHABILITATION CONTEMPLATED FOR THE DEVELOPMENT AREA AND AN ESTIMATE OF THE TIME REQUIRED FOR COMPLETION.

To expand upon what was indicated above, the location, character and estimated cost/timing of the improvements is provided below:

PROPOSED IMPROVEMENTS: WEST DDA

1. Business Development \$420,000-\$520,000

The DDA will assist the Economic Development Authority, Planning Commission, local officials, businesspeople, entrepreneurs, etc., in providing an acceptable climate for business investment. Efforts will focus on assisting existing businesses and promoting new businesses that benefit the community. This will likely involve the following projects:

- Institution of a building rehabilitation grant program that provides qualifying applicants funding to improve their building.
- Encouraging property owners and developers to create mixed-use developments, in keeping with District zoning requirements.
- Other potential activities that support and promote local business development.

2. Public Buildings and Spaces \$550,000-\$625,000

To better create a sense of place at strategic locations in the DDA District, the DDA will support the development and enhancement of public buildings and spaces including: pedestrian plazas, parks, open spaces, gardens, gazebos, sculptures, art, performance areas, walkways, and supporting site amenities, construction of public restrooms, or other similar structures identified as development occurs.

3. DDA Marketing/Development Studies and Promotional Events/Materials \$450,000-\$550,000

Destination branding and marketing have key relationships with successful districts. It is an important task to complete once the DDA has identified redevelopment goals and has established its identity within the greater region. Marketing and development attraction studies can be used as tools to attract specific development types or specific developers. Marketing materials (online, print, radio, mailers, billboard rental) can also be prepared for distribution to developers, retailer, and real estate firms promoting Union Township. This may include brochures, exhibits, trade area data, web site materials, social media activities, etc. It is also the Township's desire to create a unified image and market the West DDA District of Union Township as a cohesive business District. To that end, funding can be used for a joint marketing strategy and promotions with involvement of the business community that brings together resources for advertising, special events, and public relations.

4. Building Facade and Sign Improvement Program \$350,000-\$400,000

Existing signs and structures in the DDA that are in need of upgrade in terms of design, materials, and colors can apply for funding under this program. The DDA can allocate resources to pursue the following efforts toward upgrading the appearance of buildings in the District:

- Develop design guidelines or requirements for all buildings and signs in the District with corresponding sketches and pictures
- Develop a program to assist business owners in funding these improvements as a method to encourage implementation of the design guidelines or requirements

5. DDA Property Acquisition \$475,000-\$550,000

This involves the acquisition of property to accomplish the goals set forth by the DDA. There are times when key pieces of property become available for purchase within the DDA District, which require the DDA to purchase said properties for redevelopment or public purposes. This can also be a tool to assist with blight removal and demolition within the District.

6. Special District & Urban Design Plans \$350,000-\$400,000

District plans and urban design help to guide the built environment of the District. Many times, these plans focus on form and design elements to enhance the function of the District. Results of these plans can lead to new development projects that have been thoughtfully crafted to create vibrancy and increase density within the District core. These plans also generally result with the development of design-based guidelines for redevelopment of existing sites or development of new sites.

7. Demolition \$325,000-\$425,000

Occasionally, development opportunities require demolition of existing sites and structures. The DDA can participate in the costs of the demolition process when it is appropriate to spur new development opportunities.

8. Public Infrastructure Improvements \$1,750,000-\$2,000,000

Public improvements cover a wide array of projects including street lighting, streetscape enhancements, water and sewer improvements; electrical improvements, burying of existing and new utilities, storm water improvements, parking improvements, and generally anything else that falls within the public right-of-way, easement, or public realm.

9. Private Infrastructure Improvements \$550,000-\$620,000

As part of redevelopment, developers are often required to improve private infrastructure or anything on a private property (not in a public right-of way). The DDA is able to assist with offsetting these costs, specifically when it comes to integrated parking structures such as vertical and underground parking, utilities, water and sewer tap fees; soft costs, and others that support density in accordance with local zoning, master plans, and township goals, but may be cost-prohibitive to complete the project. Although these improvements are considered private for funding purposes, they have public benefit and support the redevelopment efforts of the Township and DDA.

10. Site Preparation \$400,000-\$500,000

Costs associated with site preparation can be significant for both public and private investment. These costs include such activities as clearing and grubbing; compaction and sub-base preparation; cut and fill operations; dewatering, excavation for unstable material, foundation work (to address special soil concerns, retaining walls, temporary sheeting/shoring, specific and unique activities, etc.); anything on private property not in a public right-of-way to support density; and prohibitive costs to allow for greater density in accordance with local zoning, master plans, and Township goals.

11. Environmental Activities \$300,000-\$400,000

Environmental Activities would include activities beyond what may be supported by the Michigan Department of Environment, Great Lakes and Energy (EGLE) under an approved Brownfield Plan and Act 381 Work Plan to protect human health and the environment, off-set cost-prohibitive environmental costs and insurance needs, etc. This can also include wildlife and habitat preservation, or restoration related to a specific development project or Public Buildings and Spaces under item #2 above.

12. Project-Specific Gap Funding Variable depending upon project (\$650,000-\$700,000)

Recognizing that the cost of mixed-use, traditional development is higher than it is for undeveloped sites, the Township may, at its own discretion, commit project-specific future tax increment capture back to private projects for a specified period of time. The goal is to provide funding to close the “gap” that prevents the project from becoming a reality due to financial feasibility. For example, if the pro-forma for a project indicates that it cannot generate enough income to cover the cost of construction and a reasonable rate of return for a developer/investor, future tax increment can be committed to that development to make it feasible. It can also be used as a tool to attract companies and businesses to the township to create new employment opportunities within the DDA District.

13. Consultation and Operational Expenditures \$950,000-\$1,000,000

The Consultation and Operational Expenditures category provides for professional services (staff) and operational activities relating to the DDA. This category is relatively variable and is subject to the level and complexity of future activities taken on by the DDA. Professional services are required to implement the proposals within this Plan and to manage and operate the DDA. This may include, but is not limited to, market studies, grant writing and administration; planning and architectural design; engineering, inspections and construction management services; and environmental assessment and mitigation planning. DDA operational activities may include but are not limited to public notices, mailings, office supplies, administrative support, and equipment usage/rental, etc.

14. Bond Repayments \$755,000-\$805,000

Tax capture can be used to pay back money that was borrowed for eligible projects under this plan.

Estimated Total Cost of All Projects: \$8,275,000-\$9,495,000

E. A STATEMENT OF THE CONSTRUCTION OR STAGES OF CONSTRUCTION PLANNED, AND THE ESTIMATED TIME OF COMPLETION OF EACH STAGE.

The specific projects to be undertaken by the DDA are not known at this time. The “Proposed Improvements” list above will be updated to show the construction planned, and the estimated time of completion, for each project as this information is known.

F. A DESCRIPTION OF ANY PARTS OF THE DEVELOPMENT AREA TO BE LEFT AS OPEN SPACE AND THE USE CONTEMPLATED FOR THE SPACE.

Future land uses for DDA District are shown on Map #3 and it identifies existing and proposed open space.

G. A DESCRIPTION OF ANY PORTIONS OF THE DEVELOPMENT AREA THAT THE AUTHORITY DESIRES TO SELL, DONATE, EXCHANGE, OR LEASE TO OR FROM THE MUNICIPALITY AND THE PROPOSED TERMS.

At the present time the Authority has no plans to lease, own, or otherwise control property in its own name. Should acquisition of property be required in the future to accomplish the objectives of the DDA, or should the Authority receive property by donation, through purchase, or by any other means of acquisition, the Authority will establish and formally adopt appropriate procedures for property disposition, subject to applicable Federal, State, and local regulations.

H. A DESCRIPTION OF DESIRED ZONING CHANGES AND CHANGES IN STREETS, STREET LEVELS, INTERSECTIONS, TRAFFIC FLOW MODIFICATIONS, OR UTILITIES.

Union Township updated the Master Plan in 2017, and will look for opportunities to strengthen zoning regulations, while remaining flexible, for new uses that may be attracted to the District. This will require zoning updates on a regular basis and may positively impact properties in the DDA boundary area. Those amendments will be added to the Appendix of this document when approved. Proposed changes in infrastructure such as streets, sidewalks, utilities, etc. are not known at this time but will also be added to the Appendix when they are known.

I. AN ESTIMATE OF THE COST OF THE DEVELOPMENT, A STATEMENT OF THE PROPOSED METHOD OF FINANCING THE DEVELOPMENT, AND THE ABILITY OF THE AUTHORITY TO ARRANGE THE FINANCING.

A description, including cost estimate and schedule of implementation, for each improvement project that will be completed within the District is contained in the project schedule and budget in this plan under “Proposed Improvements.”

J. DESIGNATION OF THE PERSON OR PERSONS, NATURAL OR CORPORATE, TO WHOM ALL OR A PORTION OF THE DEVELOPMENT IS TO BE LEASED, SOLD, OR CONVEYED IN ANY MANNER AND FOR WHOSE BENEFIT THE PROJECT IS BEING UNDERTAKEN IF THAT INFORMATION IS AVAILABLE TO THE AUTHORITY.

Information concerning the names of people for whom benefits may accrue is unknown at this time and will not be available until phases of implementation are underway.

K. THE PROCEDURES FOR BIDDING FOR THE LEASING, PURCHASING, OR CONVEYING IN ANY MANNER OF ALL OR A PORTION OF THE DEVELOPMENT UPON ITS COMPLETION, IF THERE IS NO EXPRESS OR IMPLIED AGREEMENT BETWEEN THE AUTHORITY AND PERSONS, NATURAL OR CORPORATE, THAT ALL OR A PORTION OF THE DEVELOPMENT WILL BE LEASED, SOLD, OR CONVEYED IN ANY MANNER TO THOSE PERSONS.

All such procedures will follow both Township and State law and at the present time there are no commitments made.

L. ESTIMATES OF THE NUMBER OF PERSONS RESIDING IN THE DEVELOPMENT AREA AND THE NUMBER OF FAMILIES AND INDIVIDUALS TO BE DISPLACED. IF OCCUPIED RESIDENCES ARE DESIGNATED FOR ACQUISITION AND CLEARANCE BY THE AUTHORITY, A DEVELOPMENT PLAN SHALL INCLUDE A SURVEY OF THE FAMILIES AND INDIVIDUALS TO BE DISPLACED, INCLUDING THEIR INCOME AND RACIAL COMPOSITION, A STATISTICAL DESCRIPTION OF THE HOUSING SUPPLY IN THE COMMUNITY, INCLUDING THE NUMBER OF PRIVATE AND PUBLIC UNITS IN EXISTENCE OR UNDER CONSTRUCTION, THE CONDITION OF THOSE UNITS IN EXISTENCE, THE NUMBER OF OWNER-OCCUPIED AND RENTER-OCCUPIED UNITS, THE ANNUAL RATE OF TURNOVER OF THE VARIOUS TYPES OF HOUSING AND THE RANGE OF RENTS AND SALE PRICES, AN ESTIMATE OF THE TOTAL DEMAND FOR HOUSING IN THE COMMUNITY, AND THE ESTIMATED CAPACITY OF PRIVATE AND PUBLIC HOUSING AVAILABLE TO DISPLACED FAMILIES AND INDIVIDUALS.

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan. Should said displacement be planned during implementation of the plan, the above information will be gathered accordingly.

M. A PLAN FOR ESTABLISHING PRIORITY FOR THE RELOCATION OF PERSONS DISPLACED BY THE DEVELOPMENT IN ANY NEW HOUSING IN THE DEVELOPMENT AREA.

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan.

N. PROVISION FOR THE COSTS OF RELOCATING PERSONS DISPLACED BY THE DEVELOPMENT AND FINANCIAL ASSISTANCE AND REIMBURSEMENT OF EXPENSES, INCLUDING LITIGATION EXPENSES AND EXPENSES INCIDENT TO THE TRANSFER OF TITLE, IN ACCORDANCE WITH THE STANDARDS AND PROVISIONS OF THE UNIFORM RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION POLICIES ACT OF 1970, PUBLIC LAW 91-646, 84 STAT. 1894.

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan.

O. A PLAN FOR COMPLIANCE WITH THE FEDERAL UNIFORM RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION POLICIES ACT OF 1970 AND ACT 227 OF THE PUBLIC ACTS OF 1972.

At the present time, no known relocation of families or individuals will take place within the scope of this proposed Development Plan or Tax Increment Financing Plan.

P. OTHER MATERIAL THAT THE AUTHORITY, LOCAL PUBLIC AGENCY, OR GOVERNING BODY CONSIDERS PERTINENT.

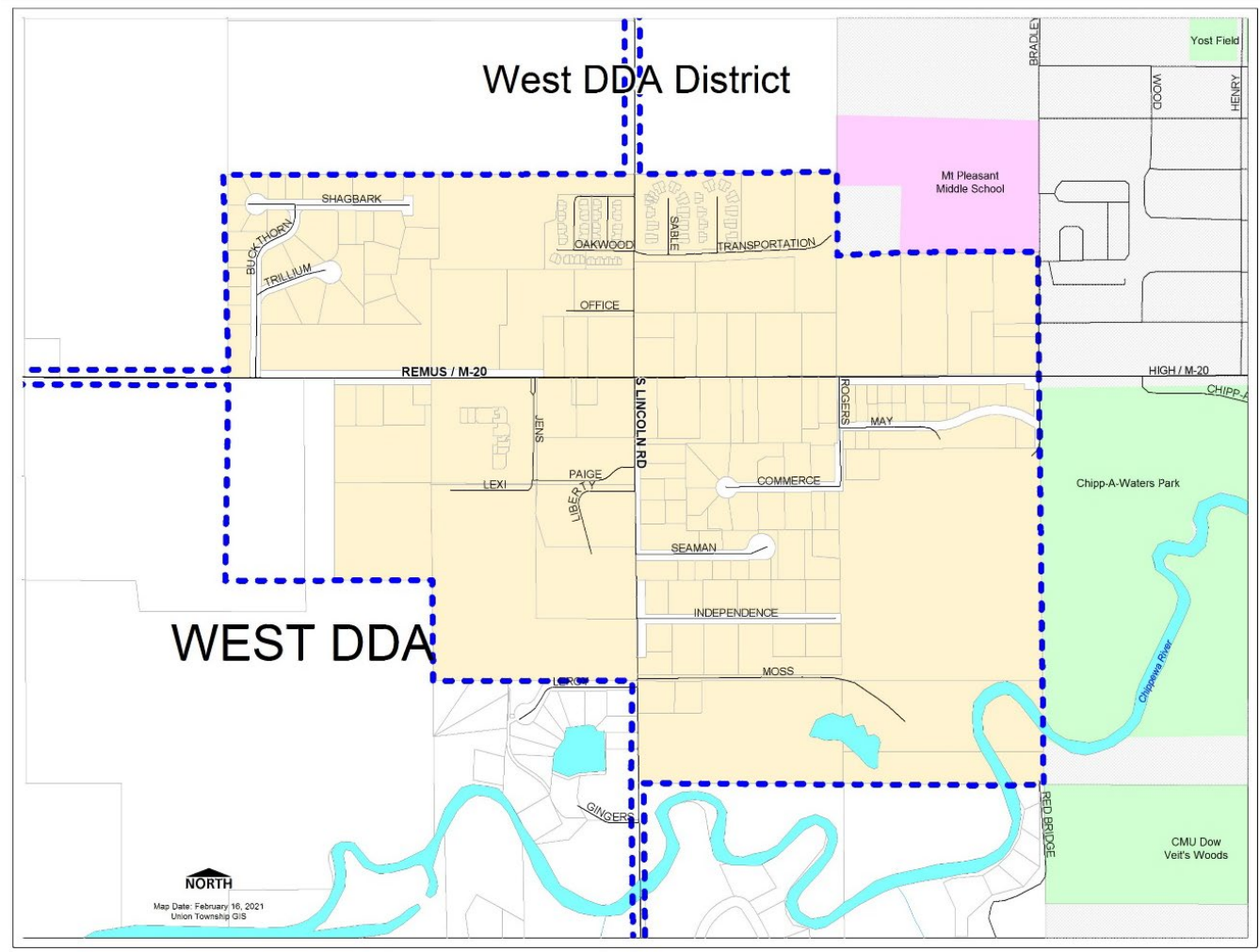
Such other material will be identified or added as the need arises.

Q. DEVELOPMENT AREA CITIZENS COUNCIL.

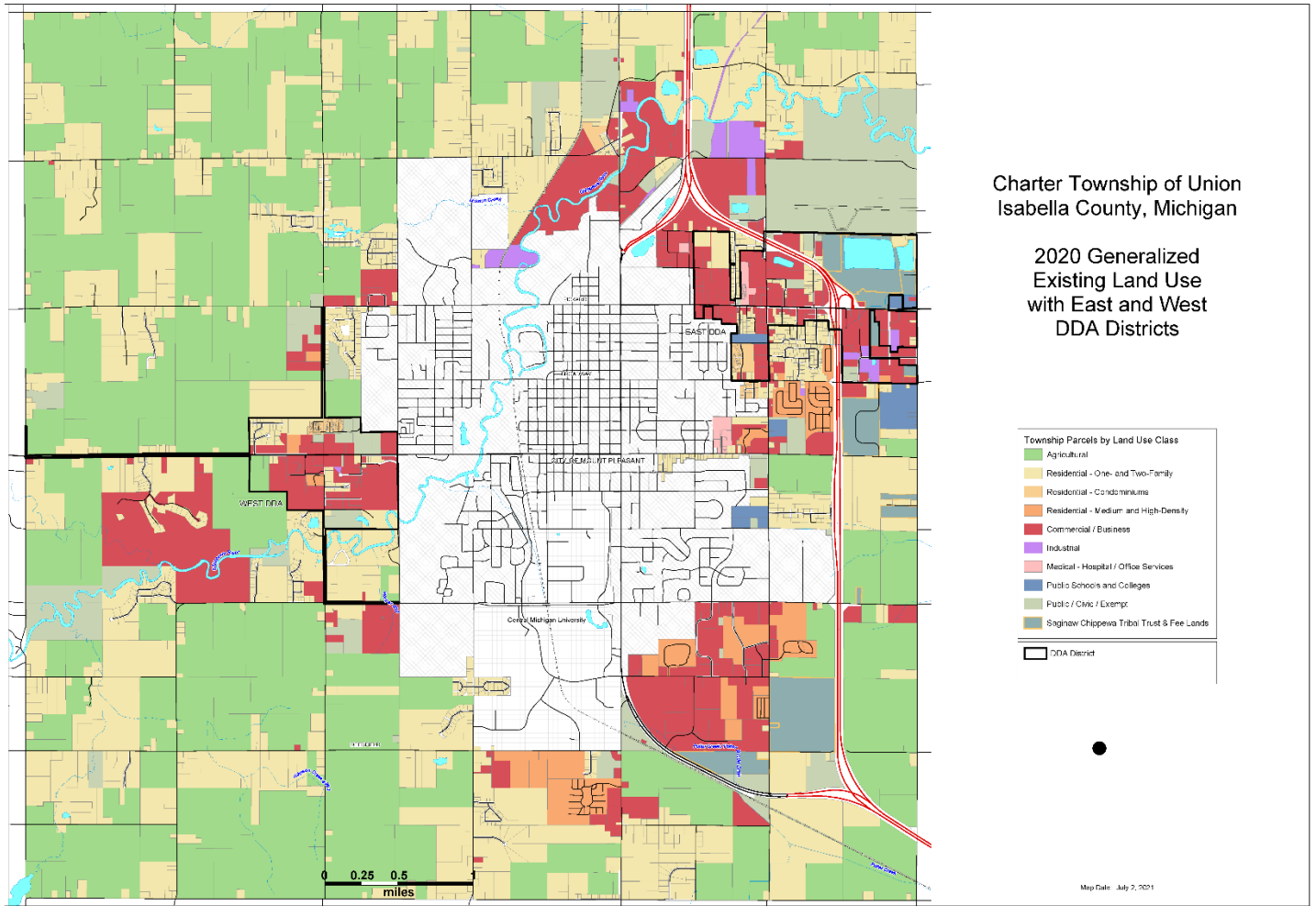
Since the development area of the DDA has more than 100 full-time primary residents, a development area citizens council will be formed as an advisory body to the Board of the DDA. The development area citizens council shall be established by the governing body and shall consist of not less than 9 members. The members of the development area citizens council shall be residents of the development area and shall be appointed by the governing body. A member of a development area citizens council shall be at least 18 years of age and the development area citizens council shall be representative of the development area.

Periodically a representative of the authority responsible for preparation of a development or tax increment financing plan within the development area shall consult with and advise the development area citizens council regarding the aspects of a development plan, including the development of new housing for relocation purposes located either inside or outside of the development area. The consultation shall begin before any final decisions by the authority and the governing body regarding a development or tax increment financing plan. The consultation shall continue throughout the preparation and implementation of the development or tax increment financing plan.

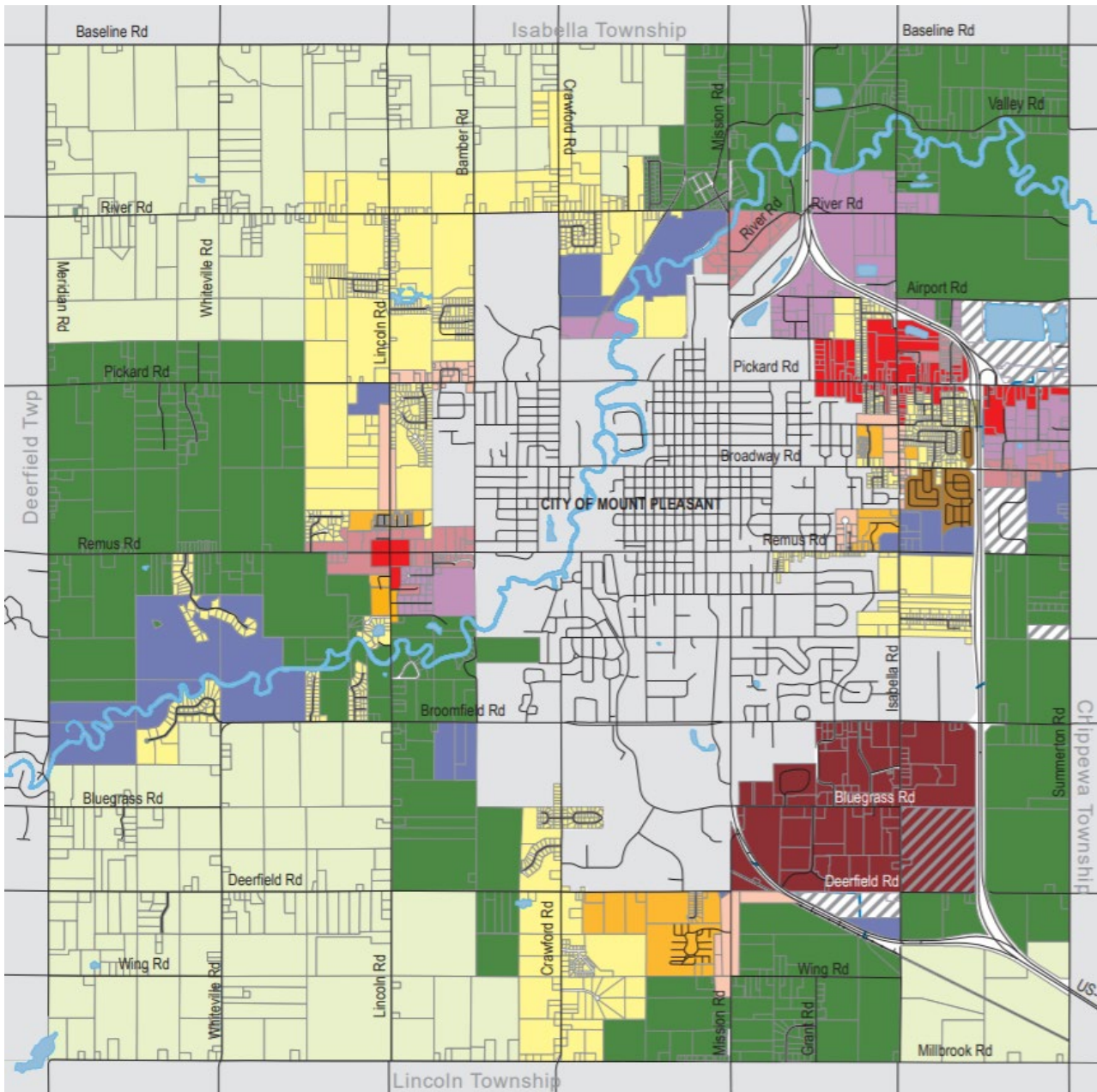
Map I: West DDA District Boundaries















Map 2: Existing Land Use



Map 3: Future Land Use



- | | |
|---|---|
|  Rural Preservation |  Neighborhood Service |
|  Rural Buffer |  Community Commercial |
|  Residential |  Commercial/Industrial Mix |
|  Residential- Attached |  Industrial/Employment |
|  Manufactured Housing |  Recreation/Institutional |
|  Bluegrass Center Area |  Tribal Trust Lands |

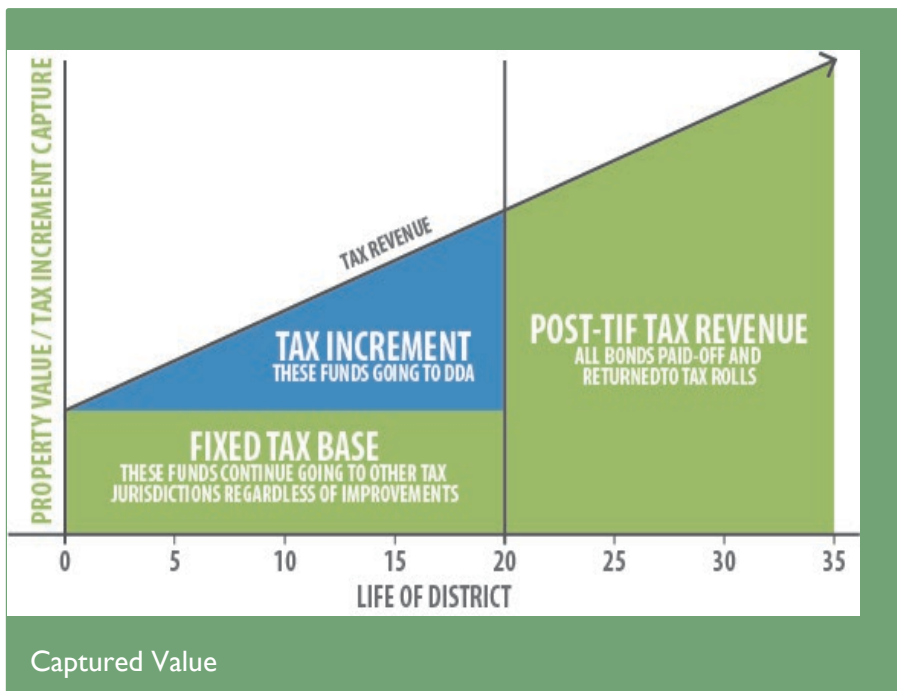
TAX INCREMENT FINANCING PLAN

EXPLANATION OF THE TAX INCREMENT PROCEDURE

Tax Increment Financing (TIF financing) is a method of funding public investments in an area slated for (re)development by capturing, for a time, all or a portion of the increased tax revenue that may result from increases in property values, either as a result of (re)development or general market inflation. The concept of tax increment financing is applied only to the Development Area for which a development plan has been prepared by the Downtown Development Authority and adopted by the Economic Development Authority.

As provided in PA 57 of 2018, tax increment financing is an effective tool

for financing redevelopment and planning of designated development areas within a Downtown Development Authority District. TIF financing can be used to fund facilities, structures, or improvements within the District and to: 1) market businesses within the District; 2) plan for property within the District; 3) acquire land; 4) improve sites; 5) construct buildings; 6) close the financing “gap” for projects; and 7) administer the Development Plan. Because TIF financing involves capture of tax revenue for certain parcels, TIF dollars must be used for improvements that will generally benefit those same parcels.



“Captured Taxable Value” can be described as the difference in amount in any year of the Plan in which the current assessed value exceeds the initial assessed value. “Current Taxable Value” is the amount of value upon which taxes are based for the current year, also called the Taxable Value. “Initial Taxable Value” represents the assessed value of properties at the time the DDA was established or updated, in this case 1985. Tax exempt properties are represented as a zero value in the Plan, since no tax increments will be collected for that site, regardless of increases in actual property value. The difference between the initial taxable value (base year total) and the current taxable value (current year total) is the value of property for which taxes can be captured and (re)invested by the DDA.

I. Increase in taxable value. The initial taxable value (“SEV”) for this plan is the taxable value of all real and personal property in the development area as determined on November 21, 1985. This is commonly considered the SEV for 1985. As shown in Table I, the base value of real property in the District is \$1,819,075.

Estimated Taxable Value Increase: West District

Table 1

Estimated Tax Capture Value 2021-2041

WEST FISCAL YEAR	ESTIMATED Projected Increase	ANNUAL TAXABLE VALUE	CAPTURED TAXABLE VALUE
Base Year 1985, Base Value = \$1,819,075			
2020	2.0%	28,372,969	26,553,894
2021	2.0%	28,372,969	27,121,353
2022	2.0%	28,372,969	27,700,162
2023	2.0%	28,372,969	28,290,547
2024	2.0%	28,372,969	28,892,739
2025	2.0%	28,372,969	29,506,975
2026	2.0%	28,372,969	30,133,496
2027	2.0%	28,372,969	30,772,548
2028	2.0%	28,372,969	31,424,380
2029	2.0%	28,372,969	32,089,249
2030	2.0%	28,372,969	32,767,416
2031	2.0%	28,372,969	33,459,146
2032	2.0%	28,372,969	34,164,710
2033	2.0%	28,372,969	34,884,386
2034	2.0%	28,372,969	35,618,455
2035	2.0%	28,372,969	36,367,206
2036	2.0%	28,372,969	37,130,931
2037	2.0%	28,372,969	37,909,931
2038	2.0%	28,372,969	38,704,512
2039	2.0%	28,372,969	39,514,983
2040	2.0%	28,372,969	40,341,664
2041	2.0%	28,372,969	41,184,879

(1) This table assumes capture based on inflation only - no new development or increase in value due to improvements. New development would increase capture.

(2) 2021-2041 assume 2.0% growth/year.

The purpose of the Tax Increment Financing Plan is to ensure that revenues from tax increment capture will be sufficient to cover anticipated costs, especially when it comes to bond debt. Therefore, some assumptions are involved in order to project property values into the future to determine anticipated revenues. A modest increase in property values was assumed. A conservative growth rate of 2.0% was used in the projections for future TIF revenue.

2. Capturable Taxable Value. A limited amount of development is expected over the entire West DDA District, as shown in Table 2. To provide conservative estimates, the TIF revenues are based on increases in property values based on the market, not improvements to property.

**Table 2
Union Township WEST DDA Total Projected Revenues**

FY	Taxable Value	Tax Increment Captured	Millage Multiplier	Tax Increment Revenue
1985	\$1,819,075		0.01292910	
2020	\$28,372,969	\$26,553,894	0.01292910	\$343,318
2021	\$28,940,428	\$27,121,353	0.01292910	\$350,655
2022	\$29,519,237	\$27,700,162	0.01292910	\$358,138
2023	\$30,109,622	\$28,290,547	0.01292910	\$365,771
2024	\$30,711,814	\$28,892,739	0.01292910	\$373,557
2025	\$31,326,050	\$29,506,975	0.01292910	\$381,499
2026	\$31,952,571	\$30,133,496	0.01292910	\$389,599
2027	\$32,591,623	\$30,772,548	0.01292910	\$397,861
2028	\$33,243,455	\$31,424,380	0.01292910	\$406,289
2029	\$33,908,324	\$32,089,249	0.01292910	\$414,885
2030	\$34,586,491	\$32,767,416	0.01292910	\$423,653
2031	\$35,278,221	\$33,459,146	0.01292910	\$432,597
2032	\$35,983,785	\$34,164,710	0.01292910	\$441,719
2033	\$36,703,461	\$34,884,386	0.01292910	\$451,024
2034	\$37,437,530	\$35,618,455	0.01292910	\$460,515
2035	\$38,186,281	\$36,367,206	0.01292910	\$470,195
2036	\$38,950,006	\$37,130,931	0.01292910	\$480,070
2037	\$39,729,006	\$37,909,931	0.01292910	\$490,141
2038	\$40,523,587	\$38,704,512	0.01292910	\$500,414
2039	\$41,334,058	\$39,514,983	0.01292910	\$510,893
2040	\$42,160,739	\$40,341,664	0.01292910	\$521,581
2041	\$43,003,954	\$41,184,879	0.01292910	\$532,483
Total Taxable Value Captured		\$734,533,564	Total TI Revenue	\$9,496,858

3. Tax Increment Capture. For each year within the term of the plan, the Finance Director transmits directly to the DDA, the applicable portion of the tax levy set by the taxing units on the real property in the development area, including that portion of any commercial facilities tax levied pursuant to P.A. 255 of 1978 and that portion on an industrial facilities tax levied pursuant to PA 198 of 1974. Voted and separately identified debt millage revenues do not come to the DDA but go directly to the intended taxing units.

“Tax increment revenues” means the amount of ad valorem property taxes and specific local taxes attributable to the application of the levy of all taxing jurisdictions upon the captured assessed value of real and personal property in the Development Area. Tax increment revenues do not include any of the following:

- a. Taxes under the state education tax act, 1993 PA 331, MCL 211.901 to 211.906.
- b. Taxes levied by local or intermediate school districts.
- c. Ad valorem property taxes attributable either to a portion of the captured assessed value shared with taxing jurisdictions within the jurisdictional area of the authority or to a portion of value of property that may be excluded from captured assessed value or specific local taxes attributable to the ad valorem property taxes.
- d. Ad valorem property taxes excluded by the tax increment financing plan of the authority from the determination of the amount of tax increment revenues to be transmitted to the authority or specific local taxes attributable to the ad valorem property taxes.
- e. Ad valorem property taxes exempted from capture under section 18(5) or specific local taxes attributable to the ad valorem property taxes.
- f. Ad valorem property taxes specifically levied for the payment of principal and interest of obligations approved by the electors or obligations pledging the unlimited taxing power of the local governmental unit or specific taxes attributable to those ad valorem property taxes.

To utilize tax increment financing, the DDA must prepare a development plan and a tax increment financing plan. Both plans are submitted to the Township Board, who must approve the plans. These plans may be amended in the future to reflect changes desired by the DDA or the Township. All amendments must follow the procedures of the Act.

MAXIMUM AMOUNT OF BONDED INDEBTEDNESS TO BE INCURRED

The Downtown Development Authority may explore the possibility of bonding against future revenues to supply the funds required to accomplish larger public improvement projects. The extent of the indebtedness and the timing of the debt retirement will be determined by the extent of the tax increment revenues. The maximum indebtedness, as stated in PA 57 of 2018, cannot exceed the ability to service the debt from tax increments. Only 80% of projected revenues are available as debt service funds. Future plan updates will consider outstanding debt as it plans for continued investment in the District.

DURATION OF THE DEVELOPMENT PROGRAM

The remaining duration of the tax increment financing plan is twenty (20) years, commencing upon approval by the Union Township EDA Board in 2021 and will cease with tax collections due in December 2041, unless this plan is amended to extend or shorten its duration.

STATEMENT OF THE ESTIMATED IMPACT OF TAX INCREMENT FINANCING ON TAXING JURISDICTIONS IN WHICH THE DEVELOPMENT AREA IS LOCATED.

The DDA is eligible to capture tax increment revenues from County Operating, ICTC - Isabella County Transportation Commission, Medical Care Facility (MCF), Commission on Aging (COA), County Parks and Recreation, Township Operating, and Township Fire Department. For a complete listing of taxing jurisdictions, please see Table 3 below.

The most important impact on the affected taxing jurisdictions is that the amount of revenue they currently receive from property within the District will not increase during the life of the Plan. Once the base value of the District is set, the DDA will capture the revenue from any increase in property value. The base amount would still flow to the appropriate taxing jurisdictions. In other words, the revenue to each taxing jurisdiction would effectively be frozen at the base value for the entire term of the DDA Plan.

The impact of tax increment financing on the revenues of all taxing properties is illustrated in Table 3 on the following page.

Table 3: Union Township West DDA Total Projected Revenue by Taxing Jurisdiction

WEST FISCAL YEAR	ESTIMATED Projected Increase	ANNUAL TAXABLE VALUE	CAPTURED TAXABLE VALUE	County Operating 0.0066100	ICTC - Isabella County Transportation Commission 0.0008620	Medical Care Facility (MCF) 0.0009795	Commission on Aging (COA) 0.0008776	County Parks and Recreation 0.0003500	Township Operating 0.0010000	Township Fire 0.0022500	TAX INCREMENT REVENUE 0.012929100
Base Year	1985	1,819,075									
2020	2.0%	28,372,969	26,553,894	\$ 175,521	\$ 22,889	\$ 26,010	\$ 23,304	\$ 9,294	\$ 26,554	\$ 59,746	\$ 343,318
2021	2.0%	28,940,428	27,121,353	\$ 179,272	\$ 23,379	\$ 26,565	\$ 23,802	\$ 9,492	\$ 27,121	\$ 61,023	\$ 350,655
2022	2.0%	29,519,237	27,700,162	\$ 183,098	\$ 23,878	\$ 27,132	\$ 24,310	\$ 9,695	\$ 27,700	\$ 62,325	\$ 358,138
2023	2.0%	30,109,622	28,290,547	\$ 187,001	\$ 24,386	\$ 27,711	\$ 24,828	\$ 9,902	\$ 28,291	\$ 63,654	\$ 365,771
2024	2.0%	30,711,814	28,892,739	\$ 190,981	\$ 24,906	\$ 28,300	\$ 25,356	\$ 10,112	\$ 28,893	\$ 65,009	\$ 373,557
2025	2.0%	31,326,050	29,506,975	\$ 195,041	\$ 25,435	\$ 28,902	\$ 25,895	\$ 10,327	\$ 29,507	\$ 66,391	\$ 381,499
2026	2.0%	31,952,571	30,133,496	\$ 199,182	\$ 25,975	\$ 29,516	\$ 26,445	\$ 10,547	\$ 30,133	\$ 67,800	\$ 389,599
2027	2.0%	32,591,623	30,772,548	\$ 203,407	\$ 26,526	\$ 30,142	\$ 27,006	\$ 10,770	\$ 30,773	\$ 69,238	\$ 397,861
2028	2.0%	33,243,455	31,424,380	\$ 207,715	\$ 27,088	\$ 30,780	\$ 27,578	\$ 10,999	\$ 31,424	\$ 70,705	\$ 406,289
2029	2.0%	33,908,324	32,089,249	\$ 212,110	\$ 27,661	\$ 31,431	\$ 28,162	\$ 11,231	\$ 32,089	\$ 72,201	\$ 414,885
2030	2.0%	34,586,491	32,767,416	\$ 216,593	\$ 28,246	\$ 32,096	\$ 28,757	\$ 11,469	\$ 32,767	\$ 73,727	\$ 423,653
2031	2.0%	35,278,221	33,459,146	\$ 221,165	\$ 28,842	\$ 32,773	\$ 29,364	\$ 11,711	\$ 33,459	\$ 75,283	\$ 432,597
2032	2.0%	35,983,785	34,164,710	\$ 225,829	\$ 29,450	\$ 33,464	\$ 29,983	\$ 11,958	\$ 34,165	\$ 76,871	\$ 441,719
2033	2.0%	36,703,461	34,884,386	\$ 230,586	\$ 30,070	\$ 34,169	\$ 30,615	\$ 12,210	\$ 34,884	\$ 78,490	\$ 451,024
2034	2.0%	37,437,530	35,618,455	\$ 235,438	\$ 30,703	\$ 34,888	\$ 31,259	\$ 12,466	\$ 35,618	\$ 80,142	\$ 460,515
2035	2.0%	38,186,281	36,367,206	\$ 240,387	\$ 31,349	\$ 35,622	\$ 31,916	\$ 12,729	\$ 36,367	\$ 81,826	\$ 470,195
2036	2.0%	38,950,006	37,130,931	\$ 245,435	\$ 32,007	\$ 36,370	\$ 32,586	\$ 12,996	\$ 37,131	\$ 83,545	\$ 480,070
2037	2.0%	39,729,006	37,909,931	\$ 250,585	\$ 32,678	\$ 37,133	\$ 33,270	\$ 13,268	\$ 37,910	\$ 85,297	\$ 490,141
2038	2.0%	40,523,587	38,704,512	\$ 255,837	\$ 33,363	\$ 37,911	\$ 33,967	\$ 13,547	\$ 38,705	\$ 87,085	\$ 500,414
2039	2.0%	41,334,058	39,514,983	\$ 261,194	\$ 34,062	\$ 38,705	\$ 34,678	\$ 13,830	\$ 39,515	\$ 88,909	\$ 510,893
2040	2.0%	42,160,739	40,341,664	\$ 266,658	\$ 34,775	\$ 39,515	\$ 35,404	\$ 14,120	\$ 40,342	\$ 90,769	\$ 521,581
2041	2.0%	43,003,954	41,184,879	\$ 272,232	\$ 35,501	\$ 40,341	\$ 36,144	\$ 14,415	\$ 41,185	\$ 92,666	\$ 532,483
TOTAL											\$ 9,496,858
	County Operating	6.6100									
	ICTC - Isabella County Transportation Commission	0.8620									
	Medical Care Facility (MCF)	0.9795									
	Commission on Aging (COA)	0.8776									
	County Parks and Recreation	0.3500									
	Township Operating	1.0000									
	Township Fire	2.2500									
	Total	12.9291									

PLAN FOR THE EXPENDITURE OF CAPTURED TAXABLE VALUE BY THE AUTHORITY

1. **Estimate of Tax Increment Revenues.** Table 3 on page 17 summarizes the estimated tax increment revenues by year. The projected annual growth in taxable value is estimated at 2% annually and is shown in Tables 1 and 2 above. Additional increases in the assessed valuation for the Development Area and consequent tax increment revenues may result from other new construction, rehabilitation, expansion, or additional appreciation in property values beyond the estimated 2% figure. These increases are beyond those projected in this plan but if such increases result, the tax increment revenues will be spent according to this plan to accelerate the implementation of the public improvement program.
2. **Expenditure of Tax Increment Revenues.** Any additional tax increment revenues beyond those projected in this plan will:
 - a. Be used to expedite any debt service;
 - b. Further the implementation of the public improvement program;
 - c. Go into a local development grant & loan fund; or
 - d. Be returned, pro-rata, to the taxing units.

Should the tax increment revenues be less than projected, the DDA may choose to:

- a. Collect and hold the captured revenues until a sufficient amount is available to implement specific public improvements;
- b. Consider implementing public improvement projects based upon the ability to match existing funds with expenditures while seeking out additional funding sources; or
- c. Amend the development plan and/or tax increment financing plan to allow for alternative projects and funding.

APPENDIX A: BASE PARCEL DATA

Parcel ID
14-016-30-002-00
14-016-30-002-01
14-016-30-002-02
14-016-30-002-03
14-016-30-002-04
14-016-30-002-05
14-016-30-002-06
14-016-30-002-07
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APPENDIX B: LEGAL DESCRIPTION

(See Map 1)

Being part of Sections 16, 17, 18, 19, 20, 21, 28, and 29 of Union Township, Isabella County, Michigan, and being more particularly described as follows: Beginning at the Northwest corner of the South half of the Southeast 1/4 of Section 17; thence Easterly along the North line of the South half of the Southeast 1/4 of Section 17 to the East line of Section 17; thence Easterly along the North line of the Southwest 1/4 of the Southwest 1/4 of Section 16 to the East line of said Southwest 1/4 of Southwest 1/4; thence Southerly along said East line to the intersection of said line and a line 792 feet North of and parallel with the South line of Section 16; thence Easterly along said line to the East line of the Southwest 1/4 of Section 16; thence Southerly along said East line to the center of Section 21; thence Westerly along the South line of the Northwest 1/4 of Section 21 to the West right-of-way line of Lincoln Road; thence Northerly along said line to the North line of the South 20 acres of the East 1/2 of the Northeast 1/4 of Section 20; thence Westerly along said line to the West line of the East 1/2 of the Northeast 1/4 of Section 20; thence Northerly along said line to the South line of the Northwest 1/4 of the Northeast 1/4 of Section 20; thence Westerly along said line to the West line of the Northeast 1/4 of Section 20; thence Northerly along said line to the Northwest corner of the Northeast 1/4 of Section 20; thence continuing Northerly along the West line of the Southeast 1/4 of Section 17 to the Point of Beginning.

Also beginning at the intersection of the South right-of-way line of Remus Road (M-20) and the West line of the Northeast 1/4 of Section 20; thence Westerly along said South right-of-way line to the West line of Section 19, said line also being the centerline of Meridian Road; thence Northerly along the West line of Section 19 and Section 18 approximately 1150 feet; thence Easterly to the East right-of-way line of Meridian Road; thence Southerly along said East right-of-way line approximately 1050 feet to the North right-of-way line of Remus Road (H-20); thence Easterly along said North right-of-way line to the East line of the Southwest 1/4 of Section 17; thence Southerly along said East line to the Point of Beginning.

Also beginning at the intersection of the East right-of-way line of Lincoln Road and the North line of the Southwest 1/4 of Section 21; thence Southerly along said East right-of-way line to the North right-of-way line of Broomfield Road; thence Easterly along said North right-of-way line to the East line of the Southwest 1/4 of Section 21; thence Southerly to the South right-of-way Broomfield Road; thence Westerly along said South right-of-way line to the West right-of-way line of Lincoln Road; thence Northerly along said West right-of-way line to the North line of the Southeast 1/4 of Section 20; thence Easterly to the Point of Beginning.

Also beginning at the intersection of the West right-of-way line of Lincoln Road and the North line of the South 1/2 of the Southeast 1/4 of Section 17; thence Northerly along said West right-of-way line to the South right-of-way line of Pickard Road; thence Easterly to the East right-of-way line of Lincoln Road; thence Southerly along said line to the North line of the South 1/2 of the Southwest 1/4 of Section 16; thence Westerly to the Point of Beginning.

To: Mark Stuhldreher – Township Manager **DATE:** October 4, 2021
FROM: Kim Smith – Public Service Director **DATE FOR BOARD CONSIDERATION:** October 13, 2021
ACTION REQUESTED: Approval of the purchase of a 2021 Combination Single Engine Dual Stage Sewer Cleaner (Jetter) with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis (Vactor Truck) from Jack Doheny Company in the amount of \$420,898.00.

Current Action Emergency _____

Funds Budgeted: If Yes Account # 590-536-977.000 No _____ N/A _____

Finance Approval _____ MDS _____

BACKGROUND INFORMATION

The Charter Township of Union currently owns a sewer vactor and sewer jetter (2 independent pieces of equipment) which were purchased in the mid – late 1990’s. Since then, the size of the township’s sewer system has doubled in size and correspondingly the quantity of sewer mains, manholes, and pump station wet wells have increased. Each of these infrastructure components require routine and emergency maintenance and repairs with the use of critical tools including vactors and jetters. The purchase of a properly sized vactor/jetter truck will enable the Township Public Services Department to better respond to customers’ needs and emergencies. The proposed vactor truck will provide additional capacity, utilize less labor, increase public and employee safety, and increase reliability.

Sewer pipe, manhole, tank, and wet well cleaning operations are carried out throughout the year. The need to clean the various components of a sanitary sewer system are the result of accumulation of grease, oil, fats, solids, dirt, and other debris in the system. Over time if these items are not cleaned on a regular basis sanitary sewer overflow will occur causing an impact to other components of the sewer system, customers’ homes/businesses, and cause spills onto the ground, into streams, rivers, lakes, and drains. Two systems are used for cleaning sanitary sewer components – jetting and vacuuming.

There are benefits of owning a combination sewer vactor truck. These specialized machines release water pressure at a high gpm rate into the manhole. The water begins to flush out all the debris lodged in the pipe. Everything from stones, bottles, asphalt, and other debris such as grease, sludge, oil, dirt and grime get washed away. The air vacuuming system engages at this point and sucks all the dislodged debris and forces it into the disposal bins and tanks.

With both of these systems working together, cleaning of sewer lines is more efficient as compared to a single process. The sewer vactor/jetter cleaning equipment trucks are also designed to serve as hydro/vacuum excavators. They can be used to excavate in areas that contain a large number of underground utilities. The trucks may also be used for street flushing, chemical and water-spraying services, and as transfer pumps if absolutely necessary. Although the township will seldom use the truck for these purposes these capabilities may need to be utilized in the future.

Union Township currently utilizes a trailer mounted vactor unit and a separate trailer mounted jetter system. The current vactor equipment’s capacity is 1,000 gallon/4.95-cubic yard tank and the jetter has an equipment capacity of 2,000 psi. The proposed combo sewer vactor/jetter’s capacity is 1,817 gallons/10 cubic yard tank and 2,500 psi. The proposed new equipment will increase the township’s overall cleaning capabilities, and will help to guard the environment from sanitary sewer overflows. These two pieces of equipment will be retained to be used on sanitary sewer lines and manholes located in cross country easements that will be difficult to access with a large vactor truck.

The FY2021 Approved Sanitary Sewer Budget includes funding to purchase a 2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis for use in the sanitary sewer collection system and at the waste water treatment plant. The Public Service Department spent a considerable amount of time creating the specifications for the Request for Proposal (RFP) to ensure the truck will meet the current and future needs of the Township. The size, depth, location, and layout of our sanitary sewer mains, pump stations, and tanks were all taken into consideration in creating the RFP. Township staff consulted with manufactures, vendors, contractors, and other Public Works Departments and staff for the creation of the RFP. An abundance of information was gleaned from contractors and DPW staff who use combination vactor trucks on a regular basis. We obtained information on the best features and most useful accessories to be included in the specifications as well as insight on which manufacturers/vendors provide the best service and warranty. We asked vendors to provide demonstration (demo) pieces of their equipment and accessories to ascertain a full understanding of the features and equipment each unit offers. Demo truck units were brought to the Township by equipment sales representatives and used in our collection system by our staff to get a full understanding of the abilities of the equipment, the various features/accessories available, and the ease of use that is provided by each manufacturers unit.

The purchase was competitively bid using the Township’s standard purchasing practices as well as through a competitive bid Cooperative called Sourcewell. Sourcewell provides competitive procurement solicitation on behalf of their municipal members by providing detailed RFP’s, bidding, public notices, advertisements, and bid openings that meet State and Local Government requirements. By using the Township’s standard purchasing practices and Sourcewell the Township’s flexibility for purchasing a unit that fits our needs was increased. The Township was able to take advantage of discounts provided by Sourcewell vendors since the bidding and procurement process is streamlined for pre-awarded vendors.

There were two (2) responsive bidders for this purchase with six (6) units to select from and a public bid opening was held. The bids received are as follows:

Supplier	Bid Amount
Fredrickson Supply (New Unit)	\$424,995.00
Fredrickson Supply (Used Demo Unit)	\$389,137.00
Jack Doheny Company (option #2)	\$443,873.00
Jack Doheny Company (option #3)	\$437,378.00
Jack Doheny Company (option #1)	\$430,103.00
Jack Doheny Supply (option #4)	\$420,898.00

SCOPE OF SERVICES

One-time purchase of a 2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis (Vactor Truck) from Jack Doheny Company in the amount of \$420,898.00 through Sourcewell Cooperative Purchasing.

JUSTIFICATION

The bids received for this purchase were thoroughly reviewed and evaluated by the Public Service Department. Each bid was analyzed and considered based on each piece of equipment's ability to meet our standard specifications, ease of use by township staff, equipment warranty, equipment service, and performance of the equipment based on the onsite demos. In addition, the Public Service Department contacted contractors and other DPW Departments currently using the proposed equipment to ascertain their satisfaction/likes/dislikes of the equipment.

The recommended bid has been reviewed by the Public Service Department and found to be in accordance with the Standards and Conditions provided in the Specifications. We recommend that the 2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis (Vactor Truck) be purchased from Jack Doheny Company through Sourcewell Cooperative Purchasing in the amount of \$420,898.00 based on the following factors:

- Suppliers' ability to provide equipment specified
- Union Township's previous purchase and service experiences with Jack Doheny Company
- Favorable recommendations by existing customers regarding equipment and service
- Favorable on-site unit demo
- Sourcewell Cooperative Buying Program discount and overall cost
- Equipment warranty and Service

PROJECT IMPROVEMENTS

The following Board of Trustees goals are addressed with this request (from Policy 1.0: Global Ends)

1. Community well-being and common good
2. Safety
3. Health
4. Environment

COSTS

DETAILED BREAKDOWN OF RECOMMENDED BID

Module, Chassis, Specification Options Total:	\$426,266.00
Available Sourcewell Discounts:	\$9,867.48
Module, Chassis, Specified Options and Discount Total:	\$416,398.52
Additional Equipment Options (listed below) Total:	\$4,500.00
Earthquake Plus (Lances, Gun, Vac Tube & Nozzles)	
Bulldog Antiblast	
Total with Module, Chassis, Specified Options, and additional options:	\$420,898.00
Freight and PDI:	included
Field Training:	included
Module, Chassis, Specified Options, Discounts, Freight and PDI, and Field Training Grand Total:	420,898.00

PROJECT FUNDING

Funds are included in the FY2021 Approved Sanitary Sewer Budget for the purchase of a 2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis (Vactor Truck) in the following GL account number:

- 590-536-977.000 \$425,000.00

PROJECT TIME TABLE

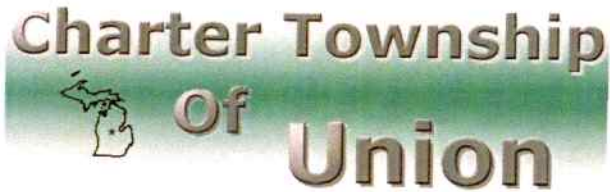
Estimated Delivery 240 days after award of bid

RESOLUTION

Authorization is hereby given to purchase a 2021 Combination Single Engine Dual Stage Sewer Cleaner (Jetter) with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis (Vactor Truck) from Jack Doheny Company in the amount of \$420,898.00.

Resolved by _____ Seconded by _____

Yes:
No:
Absent:



5228 South Isabella Road
 Mt. Pleasant, MI 48858
 989-772-4600 ext. 224 (phone)
 989-773-1988 (fax)
 ksmith@uniontownshipmi.com

Bid Tabulation Sheet

Project: 2021 Combination Single Engine Dual Stage Sewer Cleaner Due Date: August 24, 2021 @ 10:00 a.m.

Bidder	Addendum #1	Amount
Fredrickson Supply (New)	yes	\$ 424,995.00
Doheny Company Option #1	yes	\$ 430,103.00
Jack Doheny Company Option #2	yes	\$ 443,873.00
Jack Doheny Company Option #3	yes	\$ 437,378.00
Fredrickson Supply (2021-Demo) ^{900 Eco}	yes	\$ 389,137.00 - used
Jack Doheny Company Option #4	yes	\$ 420,898.00

Kimberly Smith 8-24-2021

John Beben 8-24-2021



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
Phone (989) 772 4600 ext. 224
Fax (989) 773 1988
E Mail ksmith@uniontownshipmi.com

Notice to Bidders

Charter Township of Union, Michigan

2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis

The Charter Township of Union is accepting sealed bids for the purchase of one (1) 2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy- Duty Chassis Truck.

Bids will be accepted until **August 24, 2021**, at, **10:00 am.**, at which time they will be opened and read aloud at the Public Services Department office located at 5228 South Isabella Road, Mt. Pleasant, MI 48858.

To view and download complete specifications, visit the Charter Township of Union website at www.uniontownshipmi.com/utilities/rfp

Bids are solicited on a lump sum basis.

All bids are to be sealed and clearly marked "Bid for "2021 Heavy-Duty Combination Sewer Cleaner Truck"

The Charter Township of Union reserves the right to accept or reject any and all bids and to select the bid considered most advantageous to the Charter Township of Union.

ADDENDUM NUMBER 1, HAS BEEN RECEIVED
AND INCLUDED IN THE BID.



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
Phone (989) 772 4600 ext. 224
Fax (989) 773 1988
E Mail ksmith@uniontownshipmi.com

Charter Township of Union, Michigan

2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis

PURPOSE:

The intent of this specification is to provide for the purchase of one (1) new and unused single engine combination sewer and catch basin cleaner used for removing all debris commonly found in storm basins and leads and/or sanitary sewer lines and manhole structures using a front mounted operating station. The unit shall consist of a centrifugal compressor vacuum system, a hydraulically driven high pressure water pump, an enclosed sealed body for storage of collected debris and equipped with a self-contained water supply as the source for the water pump system. The unit shall have the capability of operating both vacuum and water system simultaneously at full operating speeds continuously. The Centrifugal Compressor system shall be powered by a hydrostatic drive system.

INSTRUCTION TO BIDDERS

1. Proposals

Proposals must be made upon the forms provided, therefore, with the Bid amount both written and shown in figures, and all other data required submitted.

The Proposal, with all Proposal Documents, must be enclosed in a sealed envelope marked as specified in the Notice to Bidders for such Bid and clearly indicating the name and address of the Bidder and must be received by the Public Services Director, Union Township Public Services Building, 5228 South Isabella Road, Mt. Pleasant Michigan 48858, no later than the time and date specified in the Notice to Bidders. At such specified time, proposals shall be publicly opened and read aloud.

2. Basis of Proposals

Proposals are solicited on the basis of unit price(s) and/or lump sum(s), as specified on the Proposal form.

The Charter Township of Union, (also referred to as "Owner"), reserves the right to accept any Bid, to reject any or all Bids, and to waive any irregularities in the Bids, and to select the Bid considered most advantageous to the Township.



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3. Comparison of Bids

In comparing Bids, consideration shall be given to the time proposed for completion of the Contract, qualifications of Bidder, delivery time, price differentials, alternate Proposals for the alternate items listed in the Proposal (if applicable), and any other pertinent factors.

The Owner reserves the right to make an award to the Bidder whose Proposal is deemed to be in the best interest of the Owner.

4. Time

Time is of the essence in the performance of the Contract, and each Bidder, by submitting a Proposal, certifies his/her acceptance of the time allowed by the Contract for the delivery of the equipment. If bidder is not able to meet time specified in the bid documents, then a detailed schedule for delivery must accompany the bid proposal.

5. Equivalent Product

Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the Charter Township of Union Township.

Bidder shall demonstrate a reasonable likeness of the equipment being offered within a reasonable time of request. Equipment demonstrated shall be equipped with all accessories and components required in this specification to ascertain equivalence.

A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Two sets of the original manufacturer's brochures of the proposed unit are to be submitted with the proposal.

6. Indemnification

The Contractor/Vendor shall save and hold harmless the Charter Township of Union and its employees from and against all claims, damages, losses, or expenses, including attorney's fees, arising out of or resulting from the performance of the work; provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent or willful act of omission of the Contractor, subcontractor, employee, or anyone under their direction. The Contractor shall at his/her own expense, defend any and all such actions and shall pay all attorney's fees, costs, and expenses pertaining thereto.

7. Interpretation of Documents

If any Bidder is in doubt as to the true meaning of any part of the Plans, Specifications or any Contract Document, he/she may submit to the Owner a written request for an interpretation thereof. Any interpretation made in response to such query shall be made only by Addendum, duly issued, and a copy of such Addendum shall be posted on our website no later than five



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days prior to bid due date. The Owner shall not be responsible for any other explanation or interpretation of the Contract Documents.

8. Execution of Bid Proposal

A Bid Proposal must be signed by the individual making it and who is duly authorized by the vendor to submit such proposal/bid on their behalf.

A Bid Proposal, which is signed by a partnership, shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there should be attached to the Bid, a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the partnership and such Power of Attorney shall be signed by all partners of the partnership.

A Bid Proposal, which is signed for a corporation should have the correct corporate name thereof and the signature of the President, or other authorized officer(s)/individual of the corporation, manually written below the corporate name and on the line indicating "By:

_____."

9. Delivery

The successful Bidder shall deliver equipment and/or materials as specified to the Charter Township of Union, within **180 days** of acceptance of bid to 4795 S Mission Road Mt. Pleasant, MI 48858, or as specified in the proposal. The proposal amount should include delivery F.O.B to Mt. Pleasant. All equipment, literature, manuals, warranty papers, and any other items listed in the specifications of the equipment or materials, must be delivered before payment in accordance with this contract. If bidder is not able to meet the time specified in the bid documents for delivery, then a detailed schedule for delivery must accompany the bid proposal.

10. Miscellaneous

When delivered, the vehicle shall comply with all applicable MDOT, EPA, OSHA and FMVSS regulations and all provisions of the Michigan Vehicle Code as they apply to vehicles of this division.

10. Special Provisions

- All bids shall be in strict accordance with all provisions contained herein and shall comply with the specifications attached hereto.
- Bids shall be submitted on the printed forms provided for that purpose.
- Bid forms shall be completed in full.
- The complete set of proposal documents shall be submitted with the proposal.



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- Exceptions shall be explained in detail on a separate page.
- A bidder shall not stipulate in his proposal any condition not contained in the proposal documents.
- Any qualifying statements or conditions may be considered irregular and as not being responsive to the Advertisement for Bids.
- Each bidder shall furnish with his proposal two copies of descriptive literature on the equipment being bid and the manufacturer's specifications in complete detail. Said brochure and manufacturer's specifications shall be sufficiently detailed to permit proper evaluation of bid.
- When delivered the truck shall be complete in all parts and ready for immediate use.
- The manufacturer shall warranty the truck and equipment against defective materials and workmanship per specifications.
- A statement providing the period of warranty coverage in both mileage/hours and in calendar time shall be provided and shall state any exclusions of units/parts.
- Any item not specifically excluded in this statement shall be fully covered by the warranty.
- Any defects shall be promptly corrected without cost to the Charter Township of Union.
- No charges will be allowed for taxes. The Charter Township of Union is exempt from all Federal, State and Local taxes. The successful bidder will be provided with a copy of the Charter Township of Union Tax Exempt Form upon award of bid.
- The completed unit shall be equipped with the manufacture's equipment and accessories which are included as standard in the published literature for the unit. No such item of equipment or accessory shall be removed or omitted for the reason that it was not specified. Standard product items may be removed only where it is necessary to install other items in lieu thereof in order to comply with these specifications.
- All articles provided shall be new, unused and of current design and production.

Questions regarding the bid documents and/or technical items contained in these specifications should be directed in writing via e-mail at least five days prior to bid opening date to:

John Bebow
Charter Township of Union
Utility Foreman
jbebow@uniontownshipmi.com
cc: ksmith@uniontownshipmi.com



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11. Affidavits

The Affidavits included in these Contract Documents must be executed and submitted with the bid.

Charter Township of Union, Michigan

2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis

Proposal

TO: Office of the Public Services Director
 Charter Township of Union
 5228 South Isabella Road
 Mt. Pleasant, MI 48858

BID DATE: August 24, 2021
TIME: 10:00 a.m.

In accordance with the specifications and other bid requirements heretofore provided, the undersigned agrees to provide the below listed bid items at the price(s) set forth below.

This is a firm bid and not subject to withdrawal or change for a period of ninety (90) days.

<u>QTY</u>	<u>BID ITEM</u>	<u>TOTAL</u>
1	2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis Truck.	

Lump Sum Per bid specifications	1 each \$ <u>420,898.00</u>
	TOTAL \$ <u>420,898.00</u> (Figures)

Four Hundred Twenty Thousand Eight Hundred Ninety-Eight
 (Written)

_____ and _____/100 Dollars.

Respectfully Submitted,

COMPANY: Jack Doheny Companies, Inc. DATE 9/13/2021
dba Jack Doheny Company



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
Phone (989) 772 4600 ext. 224
Fax (989) 773 1988
E Mail ksmith@uniontownshipmi.com

ADDRESS: 777 Doheny Drive

CITY Northville STATE MI ZIP 48167

TELEPHONE 248/349-0904 FAX 248/349-2774

AUTHORIZED SIGNATURE *Steve Shafer*

PRINT OR TYPE NAME & TITLE Steve Shafer, President

EMAIL inteam@dohenycompany.com



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Bidders are required to complete the certification at the end of this section of the bid by signing in the provided space. This section verifies that the unit complies with the listed specifications. Any deviations from the bid specifications or bid documents shall be fully disclosed and provided on a separate sheet outlining all deviations. Failure to do so will deem the proposal incomplete and will not be considered.



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BID SPECIFICIATIONS FOR COMBINATION SEWER CLEANER VACUUM TRUCK

Model Year: 2021

Class: Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis Truck.

GENERAL

The specification herein states the minimum requirements of the Charter Township of Union. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. Any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the Union Township to make a reasonable determination of compliance to the specification will be considered "non-responsive" and grounds for rejection.

	COMPLY	
	YES	NO
SUBFRAME		
<i>The equipment shall be of modular design consisting of vacuum system, water tanks system, debris body and drive system.</i>	✓	
<i>A sub frame shall be fabricated to the exact dimensions of the truck chassis for mounting of modular components.</i>	✓	
<i>All components of the module shall attach to the sub frame and not directly to the chassis.</i>	✓	
<i>Sub frame shall be designed to ASME standards for maximum applied loads, chassis frame movement and even distribution of weight to the chassis and suspension.</i>	✓	
<i>Sub frame shall be continuous and uninterrupted from back of cab to end of frame.</i>	✓	
DEBRIS BODY		
<i>The body shall be cylindrical having a minimum usable capacity of 10 cubic yards.</i>	✓	
<i>The body shall be capable of a 48" dump height. Dump height of 48" must be achieved without the use of scissor lift mechanism.</i>	✓	
<i>The debris storage body shall be constructed with a minimum 3/16" corrosion and abrasion resistant Ex-Ten steel.</i>	✓	
<i>The debris storage body shall have a minimum yield point of 50,000 PSI and a minimum tensile strength of 70,000 PSI.</i>	✓	
<i>Body shall have a rear door that is hinged at the top and is equipped with a replaceable neoprene type seal. Adjustable for periodic compensation of door seal wear.</i>	✓	
<i>Dual outward mounted rear door props shall be included as standard to prevent operator from entering door swing path when engaging rear door prop.</i>	✓	
<i>For optimal particulate separation, vacuum shall be drawn from separate ports in the top of the debris body.</i>	✓	
<i>Body shall be dumped by raising the body to a 50-degree angle utilizing a forward mounted, double acting hydraulic dump cylinder.</i>	✓	
<i>Dump controls, accessory controls, e-stop control shall be provided at a central curb side location directly behind the cab of the truck.</i>	✓	
<i>For stability and safety, dumping must be accomplished while the pivot point of the body remains fixed to the subframe.</i>	✓	

Industrial style rear debris body door shall be flat and shall open and close hydraulically by cylinders mounted at the top of the body. Door shall open 50 degrees from the fully closed position. Door shall be unlocked, opened, closed, and locked by a failsafe hydraulically activated sequential positive locking system, cam operated by a single hydraulic cylinder, with all controls located behind truck cab, forward of the debris body, so operator is not subject to sewage when dumping.	✓	
Debris body shall have a body flush out system with a fan-type spray nozzle located in the front wall of the debris body to aid in the flushing of heavy debris. The nozzle shall also utilize (2) spray nozzles to flush the front most area of the debris body. System must produce a flow of 80GPM. Control valve shall be on the curb side of the unit.	✓	
Body shall have a float type automatic shut-off system protecting the Fan System with (2) 10" stainless steel shut-off balls located in the debris body. Each float ball housing shall be within a non-corrosive slide-out screen assembly and be accessed without the use of tools.	✓	
The debris body shall be equipped with a rear door drain to drain off excess liquids while retaining solids and shall include a manually operated 6" knife valve with cam-lock coupler and 25' of lay flat hose having camlock quick connects.	✓	
The debris body shall be equipped with a rear door drain at bottom dead center to drain off excess liquids with an internal screen to prevent large solids from passing. A manually operated 6" knife valve with cam-lock coupler and 25' of lay flat hose having camlock quick connects shall be included at this location.	✓	
Debris body shall have 450 GPM, 3" submersible trash pump, internally mounted in the forward body wall, with 3" x 25' lay-flat hose, hose storage basket and 3" shutoff lever gate valve. System shall be turned on/off with selector valve at curbside controls.	✓	
Plumbing with 3" PVC pipe shall be provided from the trash pump to the curbside mid-ship with 3" x 25' drain hose having camlock quick connect fittings and shutoff valve.	✓	
(4) Dual vertical (cyclone) centrifugal separators shall be installed in-line between the debris body and the air mover, (2) per side for each debris body discharge port. Each dual separator shall include large fallout chamber cleanout door.	✓	
For safety, a minimum of (5) vacuum tubes shall be stored on curbside storage racks to minimize operator exposure to traffic side of unit. Shall include quick release retainer handles (no bungees or clamps).	✓	
A curbside, folding 3-pipe rack shall be provided, constructed of steel tubing, spring assisted. Shall include quick release retainer handles (no bungees or clamps).	✓	
A fixed rear door mounted 2-pipe rack shall be provided. Shall include quick release retainer handles (no bungees or clamps).	✓	
(2) Pipe Storage Racks on rear door with quick releases.	✓	
A splash shield shall be mounted around the lower 60% of door opening to direct liquid and debris away from the chassis. Shield shall be minimum 10" deep bolted assembly with no openings.	✓	
A lubrication manifold system shall be provided to allow ground level greasing of boom lift and swing cylinders, float level indicator, top rear door hinges and debris body hoist cylinder pins.	✓	
A plastic lube chart shall be provided to call out when specific points on the unit should be greased.	✓	
A 10" valve with 2" vent to atmosphere, electrically activated, air operated valve debris body vacuum relief system shall be located in the inlet of the vacuum system to allow the venting of the tank and relieve vacuum at the debris intake hose.	✓	
A debris inlet deflector distributing load evenly in debris body shall be included.	✓	
WATER TANKS		

The water tanks shall be manufactured from a non-corrosive material to prevent rust yet still provide for maximum strength.	✓	
The water tank material shall require no internal coating and shall be repairable if patching is required.	✓	
The water tanks shall be easily removed from the subframe to provide complete access to the truck chassis for maintenance purposes.	✓	
The water tanks shall be adequately vented and connected to provide complete filling.	✓	
The water tanks shall be totally separate from the debris tanks and provide no structural support.	✓	
The water tanks shall share no common walls with the debris tanks to prevent corrosion.	✓	
The water tanks shall come equipped with an anti-siphon device and 25' of hydrant fill hose and fittings.	✓	
The water tanks shall carry a 10-year warranty against corrosion or cracking.	✓	
All water tanks shall be fully baffled to form a maximum compartment storage of 150 gallons for each compartment. Union Township has determined that for the stability of the vehicle when turning and stopping and for safety of personnel that systems baffled at 150 maximum gallon compartments are preferred. Exceptions of requirement shall be explained in detail accompanied with detailed engineering drawings.	✓	
The water tank shall be located for the lowest possible center of gravity while providing 100% gravity flooded intakes to water pump.	✓	
Fresh water shall enter the tanks through an in line 6" air gap, all aluminum covered anti-siphon device.	✓	
Water level sight tubes of non-yellowing plastic shall be installed on both tanks.	✓	
The sides of these water tanks shall not extend more than 48" out from the centerline of the truck chassis.	✓	
A fresh water drain system shall be provided to completely drain the freshwater system from one location utilizing the 3" Y-strainer on the pump.	✓	
A minimum 6" connection between tanks shall be provided.	✓	
For stability safety, the water tanks shall not elevate with debris body during dump cycle.	✓	
A low water alarm with indicator on control screen shall alert operator when water storage has reached an operator set remaining water level.	✓	
A 3 in-line "Y" trap strainer shall be located at inlet of water tank fill airgap.	✓	
A 3 in-line "Y" trap stainless steel strainer shall be located between the water cells and water pump.	✓	
A 3" Gate Valve shall be provided at water pump.	✓	
Water tank must be a certified metered capacity of 1000 gallons. Certification shall be necessary upon delivery.	✓	
Water tanks shall be constructed of 1/8" aluminum with baffled compartments maximum 150 gallons each.	✓	
Liquid Float Level Indicator shall be provided.	✓	
WATER PUMP SYSTEM		
For most efficient use of horsepower and reduced fuel consumption, high pressure rodder pump shall be hydraulically driven via (2) variable displacement pumps	✓	
Hydraulic powered rodder pump via (2) variable displacement hydraulic pumps utilizing (2) 10-bolt PTO's.	✓	
High pressure water pump shall be rated capable of continuous delivery of 100 GPM at 2500 PSI (submit manufacturer support documentation). 80 GPM @ 2500 PSI		✓

High-pressure water (rodder) pump system shall be completely controlled through the range with use of the MultiFlow Control and throttle located on the control panel.	✓	
Digital flow meter shall be displayed in front LCD display. Flow meter shall be capable of displaying system flow in all pump operating modes. In addition, a low water alarm shall be provided.	✓	
Water pump speed to remain fully adjustable via an independent operator input regardless of the selected vacuum drive speed.	✓	
Variable flow systems routing water back-to-tank are not considered equal due to additional wear, horsepower and fuel consumption. Any deviation from this drive requirement should have full explanation of horsepower consumption.	✓	
Water (rodder) pump shall include smooth and pulsation operation mode feature without altering pump flow.	✓	
When required to assist nozzle breaking through obstructions, water pump "pulsation mode" shall provide a forward-acting nozzle surge. Pulsation surge wave shall allow nozzle to punch forward 2" to 18" depending on flow dynamics and length of hose in sewer pipe.	✓	
Explanation of forward-acting pulsation method shall be submitted with bid or explained below. Systems that require the use of air induction into the water pump shall not be accepted.	✓	
Water pump location shall provide a flooded gravity suction inlet to eliminate potential cavitation damage.	✓	
An oil to water heat exchanger will be provided in the water system to cool all hydraulic fluids on the unit. State horsepower requirement to operate hydraulics at full speed:	✓	
The water pump shall provide precise 0-80 GPM controlled flow at variable pressure up to 2500 PSI.	✓	
An extreme cold weather recirculation system - minimum 25 GPM via transmission PTO at chassis engine idle speed.	✓	
A hydro-pneumatic nitrogen charged accumulator system shall be provided with all control valves, piping and hoses for either continuous flow or jackhammer rodding. Accumulator shall be a 2.5-gallon capacity and 1000 to 2500 PSI pressure rating.	✓	
Two (2) 1/2" high pressure ball valves shall be provided for draining the water pump and flushing sediment from the bottom of the pump.	✓	
A nozzle rack accommodating (3) nozzles shall be provided in curbside toolbox. The nozzles shall be labeled on storage rack for pipe size/flow and application.	✓	
System shall be relieved to protect operator.	✓	
Handgun shall be supplied that allows for changing of flow pattern from a fine mist to a steady stream.	✓	
Handgun shall come equipped with quick connect couplers.	✓	
An additional 1" water relief valve shall be provided.	✓	
A mid-ship quick disconnect handgun couplers shall be provided.	✓	
A water pump hour meter shall be provided.	✓	
A high-pressure hose reel capable of operating at system pressure shall be provided.	✓	
VACUUM/VACUUM DRIVE SYSTEM		
Vacuum shall be provided by compressing air within a two-stage 38" diameter centrifugal compressor. PD Blower Machine 18" Blower		✓
Compressor fans to be constructed of non-corrosive material.		✓
Each centrifugal compressor fan shall be constructed of non-corrosive, hardened chrome blades.		✓
Centrifugal compressor shall be warranted against corrosion for five years.		✓
The outer housing shall be constructed of 1/4" spun steel.		✓

Compressor housing shall be equipped with a drain not exceeding 2" diameter.		✓
Complete compressor and housing assembly shall be warranted against materials and workmanship for five years.		✓
Transfer case shall be activated by air via a one touch control located in cab with animated confirmation on screen.		✓
The compressor Hydrostatic Drive system shall utilize electronic controls located at the front operator station. The system shall be controlled on/ off with a switch that may be engaged or disengaged at any operating speed.		✓
The compressor controls will have a speed selection switch at the operator station to control compressor speed; manual levers on the hydrostatic pump to control compressor speed will not be accepted.		✓
The centrifugal compressor should be driven direct through a helical gear type step-up transmission drive with a step-up ratio 2 to 1.		✓
Hydraulic shut off valves shall be provided at the suction, return and filter lines to permit servicing of the hydraulic system.		✓
The drive shaft shall be supported via ball bearings and gears.		✓
Compressor shall be driven from a closed loop hydrostatic drive system utilizing available chassis power via split-shaft transfer case. The transfer case shall drive a variable displacement hydrostatic pump to energize a closed loop.		✓
The pump shall be mounted directly to the split shift transfer case. The pump will have a B10 life Rating of 10,000 hours continuous duty.		✓
The hydraulic motor powering the compressor shall be a bent axis, bi-directional motor. Motor speed shall not exceed 2,500 RPM.		✓
The hydrostatic drive system shall utilize electronic soft start speed control to manage ramping speed.		✓
The control system shall provide a mode selection switch to control the compression drive in low vacuum, combination mode and full vacuum settings.		✓
The gear drive should attach directly to the rotor shaft without the use of multiple stage V-belts or jack shafts.		✓
The gears and bearings shall be lubricated with splash lubrication system, requiring no manual greasing.		✓
The drive system shall not utilize pillow block bearings that require excessive daily greasing.		✓
VACUUM BOOM SYSTEM		
Vacuum hose shall be designed for front operation with hose mounted and stored at front mounted workstation. The hose must also allow for transport with a 5' catch basin tube attached for quick setup. The hose must also be able to be transported fully retracted to eliminate any obstruction to a drivers view of the road. A front mounted location is required for ease of positioning vacuum hose as well as minimizing need for operator to swing hose into traffic.	✓	
All connections between debris body and vacuum system will be of the self-adjusting pressure fitting type.	✓	
Vacuum hose will remain stationary and not rise with debris body.	✓	
A sub-frame mounted cab guard shall be mounted behind cab with boom rest cradle.	✓	
All vacuum pipes shall be connected to vacuum pick up tube and extension pipes by adjustable over-center quick clamps to join the aluminum flanges on pipes.	✓	
One (1) quick clamp for each pipe supplied shall be provided.	✓	
Boom pedestal shall be directly mounted to module subframe.	✓	
Boom support used for travel mode shall not interfere with access or require removal to tilt hood forward.	✓	

A control station shall be equipped with a control joystick for all directions as well as a safety emergency shut-down button, which shall automatically eliminate power to boom.	✓	
The vacuum boom shall have a heavy-duty flexible hose assembly joining the transition pipe to the debris body make break, and a 7" heavy duty hose at the suction end of the boom.	✓	
Boom shall rotate 180 degrees and shall be operated by an electric over hydraulic system. Lift and swing movements shall be actuated by hydraulic cylinders.	✓	
Hydraulic telescopic boom with 180-degree rotation shall be located at the front workstation in its retracted position, providing 282" minimum reach off the longitudinal axis of unit, providing a boom work area will be 850 square feet. The moving boom hose shall be 7" x 279" with yellow liner for durability. The boom hose shall hydraulically telescope a minimum of 10 feet forward from the operator's station storage position and shall have the ability to extend the hose downward 15' vertically without activating the hydraulic up/down function.	✓	
A joystick for hydraulic control of the boom shall be installed on hose reel front panel.	✓	
A removeable 4" diameter storage "Post" to stabilize the lower boom hose during transport. Storage device shall not interfere with raising hood.	✓	
A cordless remote boom control system equipped to activate boom functions, throttle, water pump on/off, hose reel in/out, hose reel speed, vacuum relief on/off and emergency disengagement e-stop shall be provided.	✓	
A rotatable inlet hose for telescopic/extendable boom shall be provided.	✓	
A detailed engineering drawing must be supplied showing the relationship of the hose reel in relation with the vacuum boom range of motion. Drawing shall show module mounted on chassis, full arc of vacuum hose both retracted and extended, full rotation of arc for hose reel in the extended position and dimension all arc lengths of vacuum boom retracted and extended. Drawing shall highlight intersection areas whereby combination cleaning is possible (within full arc on telescoping boom system).	✓	
A coupling shall be welded into the inner boom tube to allow for a high-pressure hose to be hooked up to this location to be able to wash debris out of the boom tube.	✓	
HOSE REEL		
Hose reel assembly shall be direct frame mounted.	✓	
Hose reel assembly shall be mounted on an independent frame that can be removed from brackets attached permanently to front of main truck frame members.	✓	
Reel will be manufactured out of 1/4" spun steel for added structural strength and shall require no internal or external reinforcements that could damage rodder hose.	✓	
Hose reel shall be driven by adjustable gear reduction chain and sprocket assembly.	✓	
Hose reel shall operate at full rotational speed while chassis engine is at idle.	✓	
Hydraulic Telescoping Rotating Hose Reel - 800' capacity of 1" hose,	✓	
The front mounted hose reel shall telescope 15" forward down centerline of truck.	✓	
Entire reel assembly shall rotate 270 degrees on a large diameter ball bearing.	✓	
Hose reel shall include a dual locking device to positively lock reel in any position across operating range.	✓	
The hose reel shall rotate about the reel assembly centerline so the reel shall never extend beyond the truck width. Reel coverage diagram shall be submitted with bid.	✓	
Controls shall be accessible on both sides of the hose reel via a mounting station for the belly pack wireless remote control, allowing operator to work at either side of unit for safety purposes.	✓	
600' x 1" Piranha Sewer Hose / 2500 Psi shall be provided	✓	

An automatic hose level wind scroll device shall be supplied. An air-cylinder actuated pinch-roller shall exert downward pressure across full width of reel to retain hose on reel when encountering nozzle blockages.	✓	
An air-cylinder actuated pinch-roller shall exert downward pressure across full width of reel to retain hose on reel when encountering nozzle blockages. Pinch roller must be activated via a one touch, backlit button with lighted feedback on the control panel.	✓	
Digital footage counter displaying footage values shall be provided. System must be capable of resetting value to ensure operator safety. Accuracy to within one percent of actual distance, Large easy to read LCD screen located on the front control panel screen.	✓	
10' Leader Hose	✓	
WASHDOWN EQUIPMENT		
A handgun with 1/2" x 35' hose shall be provided at mid-ship to allow the operator to deliver water to area served by pick up hose and to the inside of the debris body for clean out.	✓	
Hand sprayer with adjustable spray-pattern to be provided with trigger-style gun.	✓	
FRONT OPERATING STATION AND CONTROLS		
Primary operator station will be located at front of hose reel.	✓	
All operator controls should be located on a single control panel that can be rotated on a 90-degree arc for an operator customizable location. The control panel shall also feature the ability to raise and lower through a range of not less than 8 inches to accommodate operators of different height.	✓	
Station shall include a touch enabled display screen (at least 7") with corresponding tactile buttons for reading critical machine data including (hose footage, hose reel speed settings, water pressure, water flow. Air mover information, chassis data, mode indicator, chassis fuel level, and diagnostic controls), Back lit button keypads with, laser etched function icons, and 4 light feedback indicators. These buttons shall operate the following functions: All setup functions (remote/panel selector, work lights, hose reel extend/retract, hose reel lock, and pinch roller activation) and Vacuum functions. Additionally, there will be separate sealed rocker switches for Water Pump on/off and throttle up/down. There shall be a multi flow control dial for controlling the full range of the water pump.	✓	
There shall be a hose reel joystick to control the pay in and pay out of the hose reel, this joystick shall offer speed control that increases the further the joystick is moved in either direction. There shall be an additional hose reel speed dial for setting specific speed ranges of the reel. There shall be a boom joystick that controls all function of the boom including up/down, left/right, and extend/retract. There shall be a E-Stop button to bring all machine functions to full stop.	✓	
Tachometer and hour meter for chassis engine provided at control station shall be provided.	✓	
Tachometer and hour meter for Centrifugal compressor at control station shall be provided.	✓	
All Hydraulic Functions - Color Coded, Sealed Electric/Hydraulic NEMA 4 switches shall be provided.	✓	
Fan Engagement/Vacuum Relief - Sealed Electric/Air NEMA 4 Switch shall be provided.	✓	
Water pump hour meter shall be provided.	✓	
PTO hour meter shall be provided.	✓	
A temperature light and alarm shall be provided. Light and alarm will be activated when hydraulic temperature reaches 180 F.	✓	



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Front control screen shall display a water level indicator to show level of water through the range of the tank.	✓	
Front control screen shall display the debris body level.	✓	
IN CAB CONTROLS		
All In cab controls are to be located on a single in cab control screen. This shall be a 7" full color display screen. It shall utilize 12 back lit tactile (glove ready) buttons on the sides of the screen as well as feature touch screen operation.	✓	
All Back up camera Features shall be displayed on the In Cab Control Screen.	✓	
All work lights shall be able to be activated or deactivated in cab with on screen controls.	✓	
All safety strobes and beacons shall be controlled via on screen controller	✓	
Jet or Combo mode shall be activated via one touch button on the control panel.	✓	
Control screen must display an on-screen representation of the chassis drive system and must animate to show as drive systems activate or deactivate.	✓	
Recirculation must be activated on the in-cab control screen and visibly show that it is always active.	✓	
ELECTRICAL & SAFETY LIGHTING		
The entire system shall be vapor sealed to eliminate moisture damage, "Nema-4" type or equal.	✓	
I/QAN Electronic Package: Chassis Tachometer, Blower Tachometer, Operating Mode, PTO Mode, Hydraulic Oil Temperature shutdown, Hose Reel Speed, Water Pressure, and E-Stop shall be included. E-Stop activation must turn off rodder pump, shutdown Hydraulics, set chassis throttle to idle, stop vacuum E-stop must be located at each operator interface; including hose reel controls, pendant control, wireless control (if equipped) Diagnostics for basic machine functions and all inputs and outputs shall be accessible via the display. Advanced diagnostics, updates, data retrieval, and remote diagnostics will be available via PC or Bluetooth connection.	✓	
Logs, reports, and hour meters will be accessible via the display.	✓	
All electrical connections shall be void of exposed wires or terminals nor should they be painted. Paint process shall be completed prior to installation of wiring.	✓	
All wiring shall be color-coded and encased in conduit to sealed terminal boxes with circuit breakers.	✓	
All other lights required by State and Federal Laws.	✓	
Handheld, Pistol Grip LED Spotlight with rechargeable Lithium-Ion battery.	✓	
(2) L.E.D. Boom work lights shall be provided.	✓	
L.E.D. Lights, Clearance, Back-Up, Stop, Tail & Turn shall be provided.	✓	
Mid-Ship L.E.D Bubble Type Turn Signals Shall be Provided	✓	
A LED arrow stick shall be installed at the rear of the unit to provide directional control for approaching traffic.	✓	
SAFETY EQUIPMENT		
E-stop shall be located at each operator interface location. Standard locations to include front hose reel, mid-ship curbside dump controls, & wireless controller (if equipped.)	✓	
Electrical system controls shall be configured to allow for single point operation only. Upon engagement of controls at specified locations, additional controls shall be disabled.	✓	
Electrical system must enable self-check to ensure all switches are in home position prior to critical function enablement. System must "lock out" controls when switch is not in home position.	✓	
(1) Emergency Flare Kit	✓	

(1) 5# Fire Extinguisher.	✓	
7" dash monitor, 1-camera system shall be provided. A rear back-up color camera with 130 deg viewing angle shall be provided. Camera to have automatic activation when the unit is switched to reverse.	✓	
Digital water pressure shall be displayed in front LCD display. Pressure gauge shall be capable of displaying water system pressure in all pump operating modes.	✓	
SEWER TOOLS AND ACCESSORIES		
(1) 30-degree Sand Nozzle	✓	
(1) 30-degree Sanitary Nozzle plus one (1) Bulldog Antiblast Nozzle by ENZ	✓	
(1) 15-degree Penetrator Nozzle	✓	
(1) 1" Small finned nozzle pipe skid	✓	
VACUUM TOOLS AND ACCESSORIES		
The basic vacuum tube package shall include the following:	✓	
(1) 7" x 3' aluminum pipe	✓	
(2) 7" x 5' aluminum pipe	✓	
(1) 7" x 6'6" catch basin tube	✓	
(4) 7" quick clamps	✓	
CHASSIS EQUIPMENT AND STORAGE		
Two (2) front tow hooks shall be provided.	✓	
Two (2) rear tow hooks shall be provided.	✓	
Aluminum Toolbox - Behind Cab (14" wide x 36" high x 96" deep)	✓	
(1) Aluminum Toolbox with nozzle storage and dump controls mounted curbside shall be provided.	✓	
(2) 18 In. x 16 In. x 12 In. Aluminum Toolbox - Front Bumper shall be provided.	✓	
MODULE FINISH		
Painting of the module shall be with a DuPont Imron Elite Polyurethane Enamel Topcoat. Application is to be a wet topcoat applied to a dried and sanded primer base.	✓	
CHASSIS SPECIFICATION		
The unit shall be a new model. No discontinued models will be accepted	✓	
The unit shall be equipped with a Peterbilt 348 Conventional Cab Chassis	✓	
The unit shall be equipped with a diesel engine, with an PX-9; 370 HP @ 1900 RPM	✓	
Set Back Axle	✓	
The unit shall be equipped with an Allison 3000 RDS Automatic Transmission with PTO Provision	✓	
The unit shall be equipped with a Dana Spicer D2000 20,000# Single Front Axle	✓	
The unit shall be equipped with a 20,000# Taper leaf Front Suspension	✓	
The unit shall be equipped with a Dana Spicer S26-190 26,000# Single Rear Axle	✓	
The unit shall be equipped with a 22,000# Bendix Air Cam Rear Suspension	✓	
The unit shall have a wheelbase of 244 inches	✓	
The unit shall have a 10.75X3.5X.375-inch steel frame	✓	
The unit shall have a 5/16-inch C-Channel inner frame reinforcement	✓	
The unit shall have a 38-inch rear frame overhang	✓	
Hydro Excavation		
Hydro excavation spray gun with four (4)-foot, six (6) - foot, and eight (8) - foot lances - three (3) hydro nozzles of varying jet configurations and vac tubes	✓	



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Date: August 9, 2021

ADDENDUM NUMBER 1

PROJECT _____

2021 Combination Single Engine Dual Stage Sewer Cleaner with Hydrostatic Driven Vacuum System Mounted on a Heavy-Duty Chassis.

BIDS DUE

Date: August 24, 2021
 Time: 10:00 AM
 Location:
 Charter Township of Union
 5228 South Isabella Road
 Mt. Pleasant, MI 48858

The Addendum is issued prior to the receipt of bid proposals to amend the Contract Documents as follows. **Bidders shall acknowledge receipt of this addendum by means of a handwritten note on the Bid Schedule.**

Project Specifications can be found as follows:

[http://www.uniontownshipmi.com/Departments/PublicServicesDepartment/RequestforProposals\(RFP\)-PublicServicesDepartment.aspx](http://www.uniontownshipmi.com/Departments/PublicServicesDepartment/RequestforProposals(RFP)-PublicServicesDepartment.aspx)

1. THIS PROJECT IS NOT PREVAILING WAGE

SPECIFICATIONS:

	YES	NO
CHASSIS SPECIFICATION		
<i>The unit shall not exceed the length of 36' (36- feet)</i>	✓	
VACUUM BOOM SYSTEM		
<i>The height of the unit or boom system shall not exceed the height of 11' 10" (eleven-feet ten- inches)</i>	✓	

This Addendum No. 1 becomes part of the Contract Documents as of this date and supersedes the information in the originally issued Contract Documents where applicable. **The Contractor shall acknowledge receipt of the Addendum in the Bid Schedule included with his/her bid.**

Addendum No 1



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Module, Chassis, Specification Options Total:	\$ 426,266.00
Available Discounts:	\$ 9,867.48
Module, Chassis, Specified Options and Discount Total:	\$ 416,398.52
Additional Equipment Options Total:	\$ 4,500.00
Total with Module, Chassis, Specified Options, and additional options:	\$ 420,898.00
Freight and PDI:	included
Field Training:	included
Module, Chassis, Specified Options, Discounts, Freight and PDI, and Field Training Grand Total:	420,898.00

Charter Township of Union Sourcewell Account Number:102232

Training: A two (2) day factory training course for ten (10) Utility Department personnel, to be conducted at the Charter Township of Union facilities, no exemptions, will be provided with travel and lodging expenses included.

Training shall be completed by a factory trained instructor and include hands on instruction. Training shall be focused on safety, operation and maintenance of the equipment.

Bidder Reference: To ensure adequate local availability of parts and competent service from experienced suppliers, bids are preferred from vendors who have sold and serviced at least 30 units of same manufacturer within service area of Union Township (located within the State of Michigan) is preferred and should include contacts with phone numbers.

Warranty Information:

Bidder must provide full warranty detail information for all equipment and accessories with bid and a summary of the information regarding equipment warranty below:

Minimum engine warranty for all parts and labor on any internally lubricated part of the engine. All harnesses and connectors of the engine control system, IDM, ECM, fuel injectors. Warranty to begin on the date that the completed vehicle is accepted and put into service by the Charter Township of Union 24 months, 6,250 hours

Minimum transmission warranty of 2 years, no limit mileage
 Emission warranty: 5 years, 100,000 miles



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Combination Sewer Cleaner / Vacuum Truck warranted against defects in material and workmanship for a period of 12 months

Water Tank Warranty: 10 year warranty against corrosion or cracking

Debris Tank Warranty: 5 year warranty against leakage

Water Pump Warranty: 2 year warranty

Vactor Electrical Warranty: 2 years

Service:

Bidder must provide name and address information for factory certified service locations in the State of Michigan for maintenance and repair of all equipment and accessories associated with this bid.

Location of warranty service center and amount of inventory shall be noted which may be verified and inspected.

Amount of OEM parts at this facility: Northville, MI / \$6 Million

Years of servicing equipment being bid: 50

Number of factory qualified service technician: 11



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ALL BIDDERS SHALL LIST THE FOLLOWING INFORMATION REGARDING THE TRUCK CHASIS AND EQUIPMENT SUPPLIED

YEAR OF THE TRUCK	2022
MAKE OF TRUCK CHASIS	Peterbilt
MODEL OF TRUCK CHASIS	348
GVWR	46,000
WHEEL BASE	244
ENGINE (INCLUDING HORSE POWER)	PACCAR PX9 370 HP
FRONT AXLE (IN LBS)	20,000 lbs
FRONT SPRINGS	Taperleaf 20,000
ENGINE (MANUFACTURER)	PACCAR
ENGINE (RATINGS)	370 @ 1,900
FUEL TANK CAPACITY (IN GALLONS)	90 US Gallons
AUTOMATIC TRANSMISSION	Allison 3000 RDS
FRONT TIRE AND WHEELS (MANUFACTURER)	Bridgestone Tires & Alcoa Wheels
REAR TIRE AND WHEELS (MANUFACTURER)	Michelin Tires & Alcoa Wheels
FRONT TIRE AND WHEELS (SIZE)	425/65R22.5
REAR TIRE AND WHEELS (SIZE)	12R22.5
SEWER COMBINATION VACUUM TRUCK MANUFACTURER AND MODEL:	Vactor 2100i Single Axle
CAB PAINT COLOR	Customer Choice
MODULE PAINT COLOR	Customer Choice

No bidder may withdraw their bid within 90 days after the actual date of bid opening.



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Each bidder shall furnish with his proposal two copies of descriptive literature on the equipment being bid and the manufacturer's specifications in complete detail. Said brochure and manufacturer's specifications shall be sufficiently detailed to permit proper evaluation of bid.

The specification herein states the minimum requirements of the Charter Township of Union. All bids must be regular in every aspect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. Any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the Charter Township of Union to make reasonable determination of compliance to the specification will be considered "non-responsive" and grounds for rejection.

This section must be completed and returned with the bid proposal to verify that the unit proposed meets or exceeds the specifications listed above.

Steve Shafer
Resident
Specification Verification (name and title)

8/18/21
Date



Blower vs. Fan

Exceptions

Water Pump System

High pressure water pump shall be rated capable of continuous delivery of 100 GPM at 2500 PSI (submit manufacturer support documentation).

80 GPM at 2500 PSI - Acceptable

Vacuum/Vacuum Drive System - Acceptable

Vacuum shall be provided by compressing air within a two-stage 38" diameter centrifugal compressor.

Compressor fans to be constructed on non-corrosive material.

Each centrifugal compressor fan shall be constructed on non-corrosive, hardened chrome blades.

Centrifugal compressor shall be warranted against corrosion for five years.

The outer housing shall be constructed of ¼" spun steel.

Compressor housing shall be equipped with a drain not exceeding 2" diameter.

Complete compressor and housing assembly shall be warranted against materials and workmanship for five years.

Transfer case shall be activated by air via a one touch control located in cab with animated confirmation on screen.

The compressor Hydrostatic Drive shall utilize electronic controls located at the front operator station. The system shall be controlled on/off with a switch that may be engaged or disengaged at any operating speed.

The compressor controls will have a speed selection switch at the operator station to control compressor speed; manual levers on the hydrostatic pump to control compressor speed will not be accepted.

The centrifugal compressor should be driven direct through a helical gear type step-up transmission drive with a step-up ratio 2 to 1.

Hydraulic shut off valves shall be provided at the suction, return and filter lines to permit servicing of the hydraulic system.

The drive shaft shall be supported via ball bearings and gears.

Compressor shall be driven from a closed loop hydrostatic drive system utilizing available chassis power via split-shaft transfer case. The transfer case shall drive a variable displacement hydrostatic pump to energize a closed loop.

The pump shall be mounted directly to the split shift transfer case. The pump will have a B10 life Rating of 10,000 hours continuous duty.

The hydraulic motor powering the compressor shall be a bent axis, bi-directional motor. Motor speed shall not exceed 2,500 RPM.

The hydrostatic drive system shall utilize electronic soft start speed control to manage ramping speed.

The control system shall provide a mode selection switch to control the compression drive in low vacuum, combination mode and full vacuum settings.

The gear drive should attach directly to the rotor shaft without the use of multiple stage V-belts or jack shafts.

The gears and bearings shall be lubricated with splash lubrication system, requiring no manual greasing.

Vacuum shall be provided by a positive displacement rotary lobe type blower driven via chassis engine and heavy-duty split transfer case direct to the blower.

Interlock safety system shall prevent drive axle from engaging.

A horizontal silencer with rain cap shall exhaust above cab.

A blower tachometer / hour meter shall be provided and displayed digitally on front control screen.

For most efficient use of horsepower and fuel consumption, full vacuum and/or combination operation shall be approximately 1750 RPM of chassis drive engine.

Blower shall be driven by the chassis engine and shall produce inlet volume of 4500 cfm @ 0" hg @ 2250 rpm, and 3490 cfm @ 18" hg @ 2250 rpm vacuum (Roots 824RCS 18 or equal). Drive engine not to exceed 1760 RPM.

For added protection, the vacuum system shall have three (3) relief valves set at 18" hg, heavy duty horizontal mounted noise muffler, removeable and cleanable stainless steel filter screen, and shall be enclosed with a steel cage guard for safety.

Transfer case shall be activated by air via a one touch control located in cab with animated confirmation on screen.

A hot shift blower drive system shall be provided, including transfer case, air shift control, vacuum relief, and front control for blower engagement.

Blower shall be driven from chassis engine via the transmission drive shafts and heavy-duty split shaft transfer case direct to blower, engagement via one touch control on front control panel.

The blower drive mechanism shall be engaged and disengaged via an electrical switch located at the operator's station on the front mounted hose reel. This feature shall reduce blower runtime and extend the blower service life.

Blower shall be provided with a horizontal silencer with exhaust above the cab and rain cap protecting the silencer from rainwater.

Blower shall draw air from two (2) separate ports in the debris body.

Hydraulic shut off valves shall be provided at the suction, return and filter lines to permit servicing of the hydraulic system.

			List	Selected
1	2110P-18	2100i PD, 18" Vacuum, 10 yrd Debris, Combo	\$249,218.00	\$249,218.00
1	2014PSTD	1000 Gallons STD (10 yrd)	STD	STD
1	5002PA	80 GPM/2500 PSI	STD	STD
1	010PSTD	48w x 22h x 24d Curbside Toolbox	STD	STD
1	011PSTD	Aluminum Fenders	STD	STD
1	012PSTD	Mud Flaps	STD	STD
1	014PSTD	Electric/Hydraulic Four Way Boom	STD	STD
1	016PSTD	Color Coded Sealed Electrical System	STD	STD
1	019PASTD	Intuitouch Electronic Package	STD	STD
1	020PSTD	Double Acting Hoist Cylinder	STD	STD
1	025PSTD	Handgun Assembly w/35' x 1/2" Hose w/Quick Disconnects	STD	STD
1	026PSTD	Ex-Ten Steel Cylindrical Debris Tank	STD	STD
1	030PSTD	Flexible Hose Guide	STD	STD
1	032PSTD	(3) Nozzles with Carbide Inserts w/Rack	STD	STD
1	045PASTD	Suction Tube Storage - 2 Pipe	STD	STD
1	046PSTD	1" Nozzle Pipe	STD	STD
1	048PSTD	10' Leader Hose	STD	STD
1	1001PSTD	Flat Rear Door w/Hydraulic Locks	STD	STD
1	1005PSTD	Dual Stainless Steel Float Shut Off System	STD	STD
1	1016PSTD	Microstrainer Prior to Blower	STD	STD
1	1024PSTD	Debris Body Vacuum Relief System	STD	STD
1	1031PSTD	Debris Deflector Plate	STD	STD
1	1032PSTD	48" Dump Height	STD	STD
1	2001PSTD	Low Water Alarm with Water Pump Flow Indicator	STD	STD
1	2011PSTD	3" Y-Strainer at Passenger Side Fill	STD	STD
1	2022PSTD	Additional Water Tank Sight Gauge	STD	STD
1	2023PSTD	Liquid Float Level Indicator	STD	STD
1	3019PSTD	Digital Water Pressure Gauge	STD	STD
1	4006PSTD	Joystick Boom Control	STD	STD
1	4010PSTD	Boom Hose Storage, Post for 10 x 15 RDB	STD	STD
1	5010PSTD	Rodder System Accumulator - Jack Hammer on/off Control w/ manual valve	STD	STD
1	5011PSTD	3" Y-Strainer @ Water Pump	STD	STD
1	5012PSTD	Performance Package	STD	STD
1	5014PSTD	1" Water Relief Valve	STD	STD
1	5015PSTD	Midship High Pressure Coupling	STD	STD
1	5019PSTD	Chassis Engine Cooling Package	STD	STD
1	5022PSTD	Side Mounted Water Pump	STD	STD
1	6005PDSTD	Digital Hose Footage Counter	STD	STD
1	6007PSTD	Hose Reel Manual Hyd Extend/Retract	STD	STD
1	6009PSTD	Hose Reel Chain Cover	STD	STD
1	6020PBSTD	Hydraulic Extending 15", Rotating Hose Reel, 1" x 800' Capacity	STD	STD
1	6017PSTD	Hydraulic Tank Shutoff Valves	STD	STD
1	7001PSTD	Tachometer/Chassis Engine w/Hourmeter	STD	STD
1	7003PSTD	Water Pump Hour Meter	STD	STD
1	7004PSTD	PTO Hour Meter	STD	STD

Customer Initials: _____

1	7005PSTD	Hydraulic Oil Temp Alarm	STD	STD
1	7007PSTD	Tachometer & Hourmeter/Blower	STD	STD
1	8000PSTD	Circuit Breakers	STD	STD
1	8025PSTD	LED Lights, Clearance, Back-up, Stop, Tail & Turn	STD	STD
1	9002PSTD	Tow Hooks, Front	STD	STD
1	9002PSTD	Tow Hooks, Rear	STD	STD
1	9003PSTD	Electronic Back-Up Alarm	STD	STD
1	9021PSTD	Camera System, Rear Only	STD	STD
1	S390BSTD	7" Vacuum Pipe Package	STD	STD
1	S560STD	Emergency Flare Kit	STD	STD
1	S590STD	Fire Extinguisher 5 Lbs.	STD	STD
1	1003P	Debris Body Washout	\$1,592.00	\$1,592.00
1	1008P	6" Rear Door Knife Valve w/Camloc, 3:00 position	\$1,272.00	\$1,272.00
1	1008PA	6" Rear Door Knife Valve w/Camloc w/Port & Fixed Basket Screen, 6:00 position	\$1,517.00	\$1,517.00
1	1009P	Internally Mounted Trash Pump w/Screen	\$11,094.00	\$11,094.00
1	1010P	Pump Off Plumbing, Outlet Location will be dependent on supplied chassis	\$3,061.00	\$3,061.00
1	1014P	Centrifugal Separators (Cyclones)	\$5,567.00	\$5,567.00
1	1015PG	Folding Pipe Rack, Curbside, 7" Pipe	\$1,104.00	\$1,104.00
1	1015PBKSTD	Fixed Rear Door Pipe Rack, 7" Pipe	\$0.00	\$0.00
1	1022P	Rear Door Splash Shield	\$1,621.00	\$1,621.00
1	1023P	Lube Manifold	\$2,407.00	\$2,407.00
1	1023PA	Plastic Lube Chart, included with Lube Manifold	STD	STD
1	3020P	Digital Water Level Indicator	\$709.00	\$709.00
1	3021P	Digital Debris Body Level Indicator	\$950.00	\$950.00
1	4016P	180 deg. 10' x 15' Rapid Deployment Boom	\$22,752.00	\$22,752.00
1	4011PB	Bellypack Wireless Controls with hose reel controls, 2-way communications, and LCD Display	\$3,280.00	\$3,280.00
1	4013PB	Rotatable Boom Inlet Hose, 10 x 15 RDB	\$596.00	\$596.00
1	5008PB	Cold Weather Recirculator, PTO Driven, 25 GPM	\$1,809.00	\$1,809.00
1	5029PA	RDB Washout Coupling	\$111.00	\$111.00
1	6002PB	600' x 1" Piranha Sewer Hose 2500 PSI in lieu of STD	\$955.00	\$955.00
1	6007PB	Hose Wind Guide (Dual Roller), Auto, Indexing with Pinch Roller	\$5,365.00	\$5,365.00
1	6014P	High Pressured Hose Reel	\$1,539.00	\$1,539.00
1	6019P	Rodder Pump Drain Valves	\$515.00	\$515.00
1	8001PM	Rear Directional Control, LED Arrowstick	\$1,854.00	\$1,854.00
1	8002PA	Waterproof, Rechargeable, Wireless, Handheld, LED Spot Light w/12V Charger and Plug	\$373.00	\$373.00
1	8020PH	10 Light Package, 10 Federal Signal Strobe Lights, LED	\$2,202.00	\$2,202.00
1	8027P	LED Mid-Ship Turn Signals	\$561.00	\$561.00
1	8028P	Worklights (2), LED, 10 x 15 RDB	\$829.00	\$829.00
1	9070PA	Toolbox, Front Bumper Mounted, 16 x 12 x 18 w/(2) LED Side Markers	\$2,057.00	\$2,057.00
1	9071PF	Toolbox, Behind Cab - 14w x 36h x 96d	\$3,306.00	\$3,306.00
1	P112STD	Module Paint, DuPont Imron Elite - Sanded Primer Base	STD	STD

Customer Initials: _____

1	P124STD	Vactor 2100i Body Decal, Standard	STD	STD
1	LOGO-APPL.	Vactor/Guzzler Logos - Applied	STD	STD
1	500655B-30	Vactor Standard Manual and USB Version - 1 + Dealer	STD	STD
1	Chassis- Mod	Chassis Modifications Charges	\$700.00	\$700.00
	Chassis:			
1	348370SA	JDC Supplied Chassis: 2022 Peterbilt 348 Single Axle Chassis, Paccar 9L, 370 HP Engine, Allison 3000 RDS Automatic Transmission	\$ 97,350.00	\$ 97,350.00
	Non-Sourcewell Options:			Sale Price
1	JDC	Earthquaker Plus (Lances, Gun, Vac Tube & Nozzles)	\$ 1,300.00	\$ 1,300.00
1		Bulldog Antiblast	\$ 3,200.00	\$ 3,200.00

Sourcewell Build-Proposal Summary

Module/Options Total:	\$328,916.00
Options Sourcewell Discount 3%:	\$ 9,867.48
Module/Options Total per Sourcewell Price Schedule:	\$ 319,048.52
Non Sourcewell Options Total:	\$ 4,500.00
Total with Module and All Options:	\$ 323,548.00
JDC Supplied Chassis:	\$ 97,350.00
Total with Module, Options, and Chassis:	\$ 420,898.00
Freight and PDI:	included
Field Training:	included
Total:	\$ 420,898.00

Terms and Conditions

Acceptance of this Proposal is subject to availability of the Equipment listed above.

Sales Price does not include any applicable sales taxes. Buyer is responsible for and agrees to pay all applicable sales tax.

The Sale of New Equipment Terms and Conditions are incorporated into and made a part of this Proposal upon acceptance and execution of this Proposal by both parties.

Execution of this Proposal by Seller and Buyer constitutes a binding agreement between the parties.

If this Proposal is not executed by both parties within thirty (30) calendar days from the Proposal Date, this Proposal shall become null and void, unless subsequently executed by both Buyer and

Customer Initials: _____

Thank you for your consideration of this proposal.

Sincerely yours,

Adam Mazzara

Adam Mazzara

Parts & Service Sales Representative

608/712-6893

AdamMazzara@dohenycompany.com

This proposal becomes a contract for delivery and payment of the merchandise listed above only when signed by the customer or one of its officers.

Customer: _____

By: _____

Date: _____

Customer Initials: _____

SALE OF NEW EQUIPMENT TERMS AND CONDITIONS

1. **THE AGREEMENT.** Jack Doheny Companies, Inc., (the "Seller") agrees to sell, transfer and convey its right, title and interest in the new goods, equipment, vehicles and/or other new items (collectively, the "Equipment") described in Seller's written Invoice for the Sale of New Equipment (the "Invoice") to the Buyer subject to the terms and conditions contained herein, which are incorporated into the Invoice, agreed to by the parties hereto, and together consists of the entire agreement between the Seller and Buyer (collectively, the "Agreement"). The Agreement shall be for the benefit of the Seller and Buyer and not for the benefit of any other person or entity. Prior courses of dealing, trade usage and verbal agreements not reduced to a writing signed by the Seller and Buyer, to the extent they differ from, modify, add to or change from the Agreement shall not be binding on the Seller.
2. **TERMS OF PAYMENT.**
 - 2.1 **Payment Date.** All payments for the Equipment are due from Buyer on the date of the invoice unless other terms are agreed to in writing between Seller and Buyer. Payment shall be made to Seller at the address specified in the Agreement, without any offset or deduction for any reason.
 - 2.2 **Shipping Delays.** If any shipment is delayed at the request of Buyer, payment shall become due based on the date Seller is prepared to make shipment, and Seller may invoice Buyer based on such date. All prices for Equipment are F.O.B. Seller's shipping point.
 - 2.3 **Delinquent Payments.**
 - 2.3.1 Any payment not made by Buyer on or before its due date shall be subject to a late charge on any unpaid balance at a rate of 18% per annum, or the highest interest rate allowed by law, whichever is greater.
 - 2.3.2 If a payment is not made on or before its due date, Buyer agrees that Seller may elect, in addition to any other remedy at law or in equity, to cease performance under the Agreement and any other agreement between Buyer and Seller until such payment is rendered to Seller.
3. **DELIVERY.** Seller does not guarantee delivery dates.
4. **RISK OF LOSS.** Buyer assumes all risk of loss of Equipment upon delivery by Seller to carrier if Equipment is shipped. For Equipment that is shipped, Seller agrees to: (a) prepare the Equipment for shipment to Buyer; (b) deliver custody of the Equipment to carrier; (c) make appropriate arrangements for the transportation to carrier; and deliver documents to enable Buyer to obtain possession of the Equipment. Seller shall not be obligated to obtain insurance or to prepay transportation/carrier costs for the Equipment. Buyer agrees to be responsible for and to timely pay all loading, unloading and other charges incidental to transportation of the Equipment. Whether Seller pays transportation charges or not, risk of loss shall pass to Buyer upon delivery of the Equipment to a carrier.
5. **INSPECTION OF EQUIPMENT.** Buyer has inspected the Equipment and is satisfied with the Equipment's condition.
6. **INDEMNIFICATION.** Buyer shall indemnify, hold harmless and release Seller from any and all liabilities, losses, damages, claims, costs and expenses, including attorney fees, arising out of, in whole or in part, from (a) the design, or manufacture of the Equipment; or (b) the use of the Equipment by Buyer and those acting on Buyer's behalf.
7. **MISCELLANEOUS.**
 - 7.1 **No Assignment.** There shall be no assignment of the Agreement by Buyer without the prior written approval of Seller. Any assignment of the Agreement shall not relieve Buyer of its obligations under the Agreement.
 - 7.2 **Force Majeure.** Neither party will be liable for any delay or failure to perform its obligations hereunder, other than a payment obligation, due to any cause beyond its reasonable control including without limitation, acts of God or of the public enemy, including terrorists, acts of the government in its sovereign capacity, fires, floods, epidemic, strikes, picketing or boycotts, or any other circumstances caused by natural occurrences or third party actions beyond the reasonable control and without the fault or negligence of the party whose performance is affected ("Force Majeure Events"); provided that the affected party provides the other party prompt notice of the applicable circumstance and uses commercially reasonable efforts to re-commence performance as promptly as possible; provided, further, that if the duration of such Force Majeure Event exceeds thirty (30) days, the other party may terminate the Agreement upon delivery of written notice to the affected party.
 - 7.3 **Venue.** The parties agree that any dispute under the Agreement shall be brought in the applicable state or federal court located in the county in which the Originating Branch is located and the parties waive any right to a jury trial.
 - 7.4 **Construction and Captions.** The parties acknowledge that each has reviewed the Agreement and that the normal rules of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of the Agreement or any exhibits or amendments hereto; and that section headings appearing in the Agreement are for convenience of reference only and they are not intended, to any extent or for any purpose, to limit or define the text of any section or any subsection hereof. In the event any part of the Agreement is found to be ambiguous, such ambiguity shall not be construed against any party.
 - 7.5 **Entire Agreement.** The Agreement constitutes the sole and entire agreement between the parties and supersedes all prior and contemporaneous statements, promises, understandings or agreements, whether written or oral.
 - 7.6 **Amendments.** The Agreement may be amended, modified or altered at any time upon the approval of the Seller and Buyer; however, any such amendment must be in writing and signed by the Seller and Buyer in order for such amendment to be of any force and effect.
 - 7.7 **Partial Invalidity.** In the event that any provision of the Agreement is declared by any court of competent jurisdiction or any administrative judge to be void or otherwise invalid, all of the other terms, conditions and provisions of the Agreement shall remain in full force and effect to the same extent as if that part declared void or invalid had never been incorporated in the Agreement and in such form, the remainder of the Agreement shall continue to be binding upon the parties.
 - 7.8 **Counterparts.** The Agreement and any amendment thereto may be signed and executed in one or more counterparts, each of which shall be deemed an original and all of which together shall constitute one Agreement. Delivery of an executed counterpart of a signature page of the Agreement by facsimile or email shall be effective as delivery of an originally executed counterpart of the Agreement.
 - 7.9 **Authority.** Each person(s) executing the Agreement as an agent or in a representative capacity warrants that he or she is duly authorized to do so.

NO WARRANTY. SELLER MAKES NO WARRANTIES OR REPRESENTATIONS EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MARKETABILITY OR FITNESS FOR PARTICULAR PURPOSE, ALL OF WHICH ARE SPECIFICALLY HEREBY DISCLAIMED. To the extent allowed by law and those agreements, Seller transfers and assigns to Buyer the Equipment manufacturer's warranties, if any such warranty is provided by the Equipment manufacturer. In no event shall Seller be liable to Buyer for any incidental, consequential, special, exemplary, and/or punitive damages, including without limitations, loss of revenue or profit.



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Vehicle Summary

Unit		Chassis	
Model:	Model 348	Fr Axle Load (lbs):	20000
Type:	Full Truck	Rr Axle Load (lbs):	26000
Description 1:	JDC SINGLE AXLE 2022	G.C.W. (lbs):	46000
Description 2:	JDC VACTOR COMBO 348 SA 2022		
Application		Road Conditions:	
Intended Serv.:	Tanker, Liquid Bulk	Class A (Highway)	100
Commodity:	Hazardous Waste	Class B (Hwy/Mtn)	0
		Class C (Off-Hwy)	0
		Class D (Off-Road)	0
Body		Maximum Grade:	6
Type:	Tank	Wheelbase (in):	244
Length (ft):	20	Overhang (in):	38
Height (ft):	13.5	Fr Axle to BOC (in):	72.2
Max Laden Weight (lbs):	1000		
		Cab to Axle (in):	171.8
		Cab to EOF (in):	209.8
		Overall Comb. Length (in):	320.2
		Special Req.	
Trailer			
No. of Trailer Axles:	0		
Type:			
Length (ft):	0		
Height (ft):	0		
Kingpin Inset (in):	0		
Corner Radius (in):	0		
Restrictions			
Length (ft):	65		
Width (in):	102		
Height (ft):	13.5		

Approved by: _____

Date: _____

Note: All sales are F.O.B. designated plant of manufacture.



Sales Code	Std/Opt	Description	\$ List	Weight
Base Model				
0003481	S	Model 348 The Model 348 was designed to exceed the rigid demands of Class 7 and Class 8 specialty application markets that require rugged durability and a wide range of optional content. The Model 348 represents a multi-dimensional performer with a GVW from 33,000 to 66,000 lbs. and optional capacity ratings to suit almost any vocation. The 348 is also available in a specifically designed all-wheel-drive configuration. From construction and crane service to utility and delivery services in both Class 7 and Class 8 markets, the 348 is in a class by itself.	108,550	10,610
0091240	O	Hazardous Waste	0	0
0093020	O	Tanker, Liquid Bulk General freight (linehaul) service using a liquid bulk tanker body or tanker trailer.	0	0
0095150	O	Tank A truck equipped to transport liquefied loads, dru bulk cargo, or gases. May be insulated or non-insulated; pressurized or non-pressurized; and designed for single or multiple loads (often by means of internal divisions in their tank).	0	0
0098170	S	United States Registry Canadian Registry Package Requires Air Conditioning Excise Tax Canada, Speedometer to be KPH ipo MPH, Daytime Running Lights and Rubber Battery Pad in Bottom of Battery Box.	0	0
Configuration				
0200700	S	Not Applicable Secondary Manufacturer	0	0
Frame & Equipment				
0514000	O	10-3/4" Steel Rails To 354" 10.75x3.5x.375 Dimension, 2,136,000 RBM; Yield Strength: 120,000 psi. Section Modulus: 17.8 cubic inches. Weight: 1.74 lbs/inch pair	654	427
0601500	O	Full Steel Inner Liner	1,234	587
0612230	O	Custom Wheelbase or Overhang Engineering approval may be required.	365	0
0613090	S	Three-Piece Crossmembers	0	0
0644090	S	EOF Square without Crossmember End-of-frame square without crossmember. For use with body builder installed crossmember.	0	0
0651090	S	Omit Rear Mudflaps and Hangers	0	0
Front Axle & Equipment				
1011360	O	Dana Spicer D2000F 20,000 lb, 3.5 in. Drop Factory front axle alignment to improve handling & reduce tire wear. Zerk fittings on tie rod ends, king pins, & draglink ball joints for ease of	1,820	144

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Sales Code	Std/Opt	Description	\$ List	Weight
		maintenance & help extend service life of components. Cognis EMGARD® FE 75W-90 synthetic axle lube provides over 1% fuel economy improvement. Reduces wear & extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions & withstand the stress from high temperatures, extending component life.		
1114030	O	Taper Leaf Springs, Shocks 20,000 lb Standard with Heavy Resistance Shocks.	1,328	119
1233110	O	Power Steering TRW THP60 Dual For use with 16,000 to 20,000 lb. axle ratings. Glidekote splines on steering shaft extend service life of components.	939	54
1250250	O	Power Steering Reservoir Frame Mounted w/Cooler A power steering cooler helps reduce the heat of the power steering fluid. This is commonly used with systems that may experience more stress from towing or off-road driving.	254	2
1354845	S	PHP10 Iron PreSet Hubs	0	0
1380270	O	Bendix Air Cam Front Drum Brakes 16.5x6 Includes automatic slack adjusters & outboard mounted brake drums.	107	5
1391410	S	Gusseted Cam Brackets, Steer Axle	0	0
Rear Axle & Equipment				
1513210	O	Dana Spicer S26-190 26,000 lb Laser factory axle alignment to improve handling & reduce tire wear. Magnetic rear axle oil drain plug captures & holds any metal fragments in drive axle lube to extend service life. Parking brakes on all drive axles for optimal performance. Cognis EMGARD® FE 75W-90 synthetic axle lube provides over 1% fuel economy improvement. Reduces wear & extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions & withstand the stress from high temperatures, extending component life.	1,222	68
1616300	O	PHP10 Iron PreSet PLUS Hubs	337	0
1680450	U	Rear Brake Camshaft Reinforcement	91	0
1680490	O	Gusseted Cam Brackets, Drive Axle(s)	24	2
1680500	S	SBM Valve Full trucks require a spring brake modulation (SBM) system for emergency braking application. This system requires an SBM valve and a relay valve with spring brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle spring brakes if a failure exists in the rear air system.	0	0
1680550	O	Upsize Parking Brakes	126	0
1680795	O	Diff Lock, Single Drive Axle with Speed Interlock	874	30
1680910	O	Heavy Duty Brake Drums, Drive Axle(s)	159	21

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Sales Code	Std/Opt	Description	\$ List	Weight
		Use with 16.5x7 Brakes		
1680950	S	Stability System Not Selected Or Not Available	0	0
1682430	S	Anti-Lock Braking System (ABS) 4S4M ABS-6. Includes air braking system.	0	0
1684200	S	Synthetic Axle Lubricant All Axles Peterbilt heavy duty models include Fuel Efficient Cognis EMGARD FE75W-90 which provides customers performance advantages over current synthetic lubricants with reduced gear wear and extended maintenance intervals, resulting in increased uptime. In addition, the lubricant provides improved fluid flow to protect gears in extreme cold conditions and withstand the stress from high temperatures, extending component life.	0	0
1686348	S	Single Drive Axle (Model 348)	0	0
1687010	S	Bendix Air Cam Rear Drum Brakes 16.5x7 Bendix Air Cam Rear Drum Brakes to fit all heavy haul, construction, refuse and highway truck and tractor applications. Includes Automatic Slack Adjusters & Outboard Mounted Brake Drums.	0	0
1688110	O	Heavy Duty Cam Bushings, Drive Axle(s)	53	0
1705380	O	Ratio 5.38 Rear Axle	0	0
1816100	O	Reyco 79KB Multi Leaf 26,000 lbs.	-132	-125
1911070	O	Reyco Helper Springs 4,500 lb For use with Reyco 79KB suspension	375	62

Engine & Equipment

2074513	O	PACCAR PX-9 370@1900 GOV@2100 1250@1200 Performance (2021 Emissions)	9,653	0
		N21350 C121 68....Maximum Accelerator Pedal Ve		
		N21370 C128 68....Maximum Cruise Speed (P059)		
		N21460 C132 1400..Max PTO Speed (P046)		
		N21520 C133 5.....Timer Setting (P030)		
		N21610 C188 39....Low Ambient Temperature Thre		
		N21620 C189 60....Intermediate Ambient Tempera		
		N21630 C190 80....High Ambient Temperature Thr		
		N21550 C206 35....Engine Load Threshold (P516)		
		N21340 C209 120...Hard Maximum Speed Limit (P1		
		N21510 C225 NO....Enable Idle Shutdown Park Br		
		N21450 C231 NO....Gear Down Protection (P026)		
		N21570 C233 NO....Idle Shutdown Manual Overrul		
		N21440 C234 YES...Engine Protection Shutdown (
		N21480 C238 NO....Auto Engine Brake in Cruise		
		N21470 C239 NO....Cruise Control Auto Resume (
		N21430 C333 0.....Reserve Speed Limit Offset (
		N21410 C334 0.....Maximum Cycle Distance (N202		
		N21590 C382 YES...Enable Hot Ambient Automatic		

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Sales Code	Std/Opt	Description	\$ List	Weight
		N21500 C395 0.....Expiration Distance (N209)		
		N21530 C396 YES...Enable Impending Shutdown Wa		
		N21540 C397 60....Timer For Impending Shutdown		
		N21320 C399 120...Standard Maximum Speed Limit		
		N21400 C400 252...Reserve Speed Function Reset		
		N21420 C401 10....Maximum Active Distance (N20		
		N21330 C402 0.....Expiration Distance (N207)		
2091310	O	Engine Idle Shutdown Timer Disabled	0	0
2091315	O	Enable EIST Ambient Temp Override	0	0
2091372		Eff EIST NA Expiration Miles	0	0
2091640		Effective VSL Setting NA	0	0
2092014	O	Typical Operating Speed 65 MPH	0	0
2092032	O	Powertrain Optimized for Performance Best analysis for vehicles used in vocational applications or with heavy GCWRs.	0	0
2140150	O	Remote PTO and Throttle Provision 12-pin connector on engine harness.	17	0
2140200	S	CARB Engine Idling Compliance PACCAR PX-7, PX-9 and MX, Cummins X15 and ISX diesel engines will include the required factory installed sticker on the drivers door to identify them as meeting the NOx idling standard.	0	0
2513060	S	PACCAR 160 Amp Alternator, Brushed PACCAR 160 AMP alternator, brushed producing 160 Amps at road speed and 100 Amps at idle.	0	0
2521090	O	Immersion Type Block Heater 110-120V Standard location for 2.1M and 1.9M models is left-hand under cab, Model 520 is in bumper, and for Model 220 it is at the driver step. Plug includes a weather-proof cover that protects the receptacle. This pre-heater keeps the coolant in the engine block from freezing when the engine is not running.	86	2
2521110	O	Oil Pan Heater 120V/300W Oil Pan Heater 120V/300W operates via 120V ShorePower system and keeps oil warm and free flowing for instant lubrication with oil and transmission immersion heaters when the engine is not running. This option utilizes the same receptacle as the immersion pre-heater if specified together.	141	2
2522110	S	PACCAR 12V Starter, N/A PACCAR MX Engines PACCAR 12-volt electrical system. With centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded.	0	0
2538040	O	3 PACCAR Premium 12V Dual Purpose Batt 2190 CCA Threaded stud type terminal. Stranded copper battery cables are double aught (00) or larger to reduce resistance.	261	62
2539410	O	Battery Jumper Terminal Mounted Under Hood	99	4

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Sales Code	Std/Opt	Description	\$ List	Weight
		LH Frame Rail. Not available with PX-7 engines.		
2621000	O	2-Speed Fan Clutch For Frequent Start/Stops A 2-speed fan clutch is ideal for vocational applications where the fan clutch engagement time exceeds 10% of the engine run time. When the fan clutch is disengaged, the fan still rotates at 15-25% of the engine RPM. This fan rotation provides crucial airflow to the engine and draws virtually no horsepower.	374	0
2723210	S	18.7 CFM Air Compressor N/A X15. Furnished on engine. Teflon lined stainless steel braided compressor discharge line.	0	0
2812210	O	VGT Exhaust Brake (Variable Geometry Turbo). Provides approximately 90-100 HP of retardation and is part of the turbocharger.	65	0
2921160	S	Spin-On Fuel/Water Separator	0	0
2921210	S	No Fluid Heat Option for Fuel Filter	0	0
2921320	O	12V Heat for Fuel Filter Fuel filter heaters help ensure a seamless flow of diesel from the tank to the combustion chamber. Eliminating any possibility of moisture freezing within the fuel filter while simultaneously increasing the fuel temperature for atomization within the engine.	58	0
3010400	O	Engine Protection Shutdown w/ Label Includes oil pressure, oil temperature, coolant temperature, and intake manifold temperature.	4	0
3114270	S	High Efficiency Cooling System Cooling module is a combination of steel and aluminum components, with aluminum connections to maximize performance and cooling capability. Silicone radiator & heater hoses enhance value, durability, & reliability. Constant tension band clamps reduce leaks. Chevron Delo Extended Life Coolant (NOAT) extends maintenance intervals reducing maintenance costs. Anti-freeze effective to -30 degrees F helps protect the engine. Low coolant level sensor warns of low coolant condition to prevent engine damage. Radiator Size by Model: 579/367 FEPTO 1325 sq in, 567/365/367: 1440 sq in, 365 FEPTO: 1184 sq in, 389/367 HH: 1669 sq in, 348: 1000 sq in, 520: 1242 sq in.	0	0
3211120	S	Radial Seal, Dry Type Air Cleaner, Frontal Air Intake. Molded rubber air intake connections with lined stainless steel clamps seal to prevent contaminants in air intake.	0	0
3365270	O	Exhaust Single RH Side of Cab DPF/SCR right-hand Under Cab.	405	29
3381770	O	Curved Tip Standpipe(s)	42	0
3387610	O	18" Ht, 5" Dia Chrome, Clear Coat Standpipe(s)	453	-2
Transmission & Equipment				
4052110	O	Allison 3000 RDS-P Transmission, Gen 5 Rugged Duty Series. Includes Rear Transmission Support except on MX engines, Mobil Delvac Automatic Transmission Fluid, and Water-Oil	10,517	195

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Sales Code	Std/Opt	Description	\$ List	Weight
		Heat Exchange. Also includes features that monitor the transmission fluid, filter and clutch condition. Will display percent life remaining for the transmission fluid, filter and clutches on the shift selector. This information may be displayed using the Mode and Up and Down buttons. A wrench icon will also be included to indicate when the transmission fluid, filter or clutches need servicing. Suited for vehicles operating on/off highway and/or requiring PTO operation. Forward ratios: 1st-3.49, 2nd-1.86, 3rd-1.41, 4th-1.00, 5th-0.75, 6th-0.65. Reverse ratios: DR-(5.03).		
4210000	O	SPL170 HD-XL Driveline, 2 Midship Bearings	1,154	125
4250500	U	ALLISON 5TH GEN RDS, PKG 172	0	0
4252330	U	ALLISON SHIFT SELECT TRANSITION INPUT D	0	0
4252890	O	Allison FuelSense 2.0 Not Desired	0	0
4252950	O	Omit Allison Neutral At Stop	0	0
4256471	U	Allison MD/HD/RDS 4th Gear Lockup AJ	298	0
4256640	O	Allison 6-Speed Configuration, Close Ratio Gears 3000 Series Transmissions.	0	0
4256780	U	Allison PTO Enable on Mode Button	0	0
4256920	O	Dash Mounted Push Button Shifter Available with Allison transmissions	626	0
Air & Trailer Equipment				
4510190	S	Bendix AD-HF Air Dryer, Heater Bendix AD-HF air filters protects the life of your engine system and components. Proven PuraGuard oil coalescing technology in the the air dryer cartridge. This oil coalescing filter ensures the removal of oil and oil aerosols before they can contaminate the moisture removing desiccant.	0	0
4520420	O	Pull Cords All Air Tanks	7	0
4540420	S	Nylon Chassis Hose	0	0
4543320	S	Steel Painted Air Tanks All air tanks are steel with painted finish except when Code 4543330 Polish Aluminum Air Tanks is also selected (then exposed air tanks outside the frame rails will be polished aluminum). Peterbilt will determine the optimal size and location of required air tanks. Narratives requesting a specific air tank size or location will not be accepted for factory installation. See ECAT to determine number or location of air tanks installed.	0	0
4611930	O	Body Connections 5' BOC Junction box contains light and power circuits for body connections located 5' from back-of-cab	132	4

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Tires & Wheels				
5064030	O	FF: BR 20ply 425/65R22.5 M864 Efficiency Rating: Fair Diameter= 44.8 inches; SLR= 20.7 inches	863	148
5156490	O	RR: MN 16ply 12R22.5 X Works Z Efficiency Rating: Poor Diameter= 42.9 inches; SLR= 20.1 inches	1,218	128
5190004	O	Code-rear Tire Qty 04	0	0
5220090	U	FF: Alcoa 823627 22.5X12.25 High Polish	661	-10
5320530	O	RR: Alcoa 89U647 22.5X9.00 High Polish Aluminum. Ultra ONE wheels with MagnaForce alloy.	916	-40
5390004	O	Code-rear Rim Qty 04	0	0
5407640	O	FF: Mirror Polish Wheels, Outer Surface Single/tandem steer. Mirror Polish outer surface of outer wheel. Without chrome wheel nuts.	65	0
5407650	O	RR: Mirror Polish Wheels, Outer Surface, Single Drive without chrome wheel nuts. Mirror polish outer surface of outer wheel.	251	0
Fuel Tanks				
5554160	O	26" Aluminum 90 Gallon Fuel Tank LH U/C Includes steps for cab access. Paddle handle filler cap with threadless filler neck. Top draw fuel plumbing reduces chance of introducing air into the fuel system during low fuel level conditions due to the central placement of fuel pickup tube. Wire braid fuel lines increase durability & reduce potential for leaks. <i>Narr 70MM FRONT SPACER BLOCKS IN FRONT SPRINGS</i>	313	14
5602090	O	Location LH U/C 90 Gallon	0	0
5652830	O	Polish All Fuel / Hydraulic Tank Straps Does not apply to rectangular DEF tank straps	12	0
5652890	S	DEF Tank Mounted LH BOC Models 220 and 520 mounted left hand back-of-cab.	0	0
5652980	S	DEF To Fuel Ratio Between 1:1 And 2:1	0	0
5653000	O	Polished Stainless Steel Cover For DEF Tank	192	0
5655019	S	DEF Tank Small 11.1 Gallon Capacity	0	0
Battery Box & Bumper				
6010800	O	Install Batteries On Temp Plywood Support BOC	95	-97

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		Includes maximum length battery cables allowable per engine manufacture requirements. Recommend three or more batteries for Class 8.		
6040550	S	Aftertreatment Aluminum Non-Slip Cab Entry Aftertreatment right-hand under cab step. DPF/SCR for diesel engines, catalyst for natural gas engines. On Models 579 specifying chassis fairings, the box is aerodynamic.	0	0
6113050	O	Aluminum Channel Bumper Stainless Steel Clad Two tow points	613	-4
Cab & Equipment				
6515640	O	Alum Cab 110in BBC Metton Hood With bright finish crown. Includes view window RH door and convex mirror over RH door.	906	0
6540160	O	Thermal Insulation Package in Cab Includes thick, closed-cell foam in floor, special mylar-faced foam in walls and roof structure.	19	2
6540560	U	SEVERE SERVICE CAB EXCLUSION	54	0
6540700	U	5th Key - For Spare	175	0
6800360	O	Rubber Fender Lips 2" Wide	96	8
6911700	S	National Driver Seat Increased comfort with more foam in critical areas, better lumbar support, improved adjustability and suspension with toggle link design.	0	0
6921700	S	National Passenger Seat Increased comfort with more foam in critical areas, better lumbar support, improved adjustability and suspension with toggle link design.	0	0
6930580	O	Drivers Armrests - LH & RH	69	4
6930590	O	Passenger Armrest - LH only Required with Evolution LX seats, optional with Evolution ST Seats.	35	2
6930800	O	Black Seat Color IPO Standard Color	0	0
6939400	S	Air Ride Driver	0	0
6939420	S	High Back Driver	0	0
6939470	S	Vinyl Driver	0	0
6939500	O	Air Ride Passenger	202	43
6939520	S	High Back Passenger	0	0
6939570	S	Vinyl Passenger	0	0
7001520	O	Adjustable Steering Column - Tilt/Telescope	95	11

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Sales Code	Std/Opt	Description	\$ List	Weight
7001620	S	Steering Wheel With Peterbilt Logo Steering Wheel with embossed Peterbilt logo over horn button.	0	0
7036120	S	Interior Gray/Black Includes rugged charcoal instrument panels, glare-resistant gray dash, black bezels on gauges, (2) power ports, monochromatic molded door pads with durable in-mold color, gray molded back wall, 18 inch 4-spoke soft-touch steering wheel, soft-touch steering column cover, power lift passenger window, extruded rubber floor covering, header-mounted dome light, foot well lighting, integrated "dead pedal", (4) inside entry grab handles, (2) inside sunvisors, (2) coat hooks, (2) cup holders and map bin in dash.	0	0
7210430	O	Extended Rear Window ipo Std Window-Day Cab The extended rear window protrudes two inches more than the standard conventional rear cab window. Take this into consideration when determining your loadspace.	68	18
7210540	S	Day Cab Rear Window Day cab rear window flush to back of cab.	0	0
7230060	S	1-Piece Curved Windshield	0	0
7322010	S	Combo Fresh Air Heater/Air Conditioner With radiator mounted condenser, dedicated side window defrosters, Bi-Level Heater/Defroster Controls, 54,500 BTU/HR, and silicone heater hoses.	0	0
7410040	O	Outside Sunvisor - Stainless Steel Not available with 2.1M high roof sleeper.	222	4
7560100	O	Mirrors SSTL Each Side Heated and Motorized with Switch on Door.	368	2
7560850	O	(2) Convex 8 Inch SSTL Mirrors Center mounted under mirror bracket. If rear view mirrors are heated, the convex mirrors will be heated. Option includes dual door stops.	266	4
7564110	S	Power Package Includes power door locks and power windows.	0	0
7565180	O	Polished Lower Mirror Bracket Covers	27	0
7610020	O	(1) Air Horn 15" Painted Mounted under cab.	178	8
7722120	O	ConcertClass, AM/FM, Weatherband, 3.5 Aux	317	10
7725710	O	Standard Speaker Package For Cab (2) Speakers	116	4
7728040	O	Bluetooth Phone and Audio	54	0
7728050	O	USB Port	54	0
7850210	O	Plug-In Auto Reset Circuit Breaker in place of fuses in junction box.	40	0
7851480	S	Peterbilt Electric Windshield Wipers With Intermittent Feature.	0	0
7900090	O	Triangle Reflector Kit, Ship Loose	17	13

Price Level: July 1, 2020

Deal: JDC SINGLE AXLE 2022

Printed On: 3/26/2021 9:33:34 AM

Date: March 26, 2021

Quote Number: QUO-800608-X6G9M2



Sales Code	Std/Opt	Description	\$ List	Weight
		Florescent triangle emergency road flares are designed to meet and exceed all DOT standards.		
7900270	O	Fire Extinguisher, Cab Mounted Hazmat approved UL listed/rated ABC	54	8
7901130	O	Backup Alarm (107 DB)	51	3
8011400	O	Main Transmission Oil Temperature Gauge Located in Driver Information Display	18	0
8021380	S	Air Restriction Indicator Mounted on air cleaner, intake piping, or firewall	0	0
8071340	O	Bright Bezel Gauges 52mm Round Gauges Only- B Panel	50	0
8071870	S	Main Instrumentation Panel, Graphics Display Includes speedometer with trip odometer, tachometer with hourmeter and outside air temperature display, voltmeter, engine oil pressure, engine coolant temperature, fuel level, primary and secondary air pressure gauges. Includes standard warning light package: high water temperature, low oil pressure, and low air pressure warning lights with audible alarms, high beam, turn signal, low fuel, parking brake, and ice warning indicators; seat belt reminder; rocker switches with long-life LED indicators; multi-function turn stalk with flash-to-pass feature (night mode flashes headlights and marker lights; day mode flashes headlights only), intermittent windshield wiper and headlamp beam control. Hydraulic braked trucks do not include air pressure gauges.	0	0
8111110	S	Headlights Composite Fender Mounted Integral park, turn, and side marker	0	0
8120980	S	(5) Marker Lights, Aero LED	0	0
8133960	O	Daytime Running Lights The brake interlock turns the daytime running lights off when the parking brakes are engaged. This is required on all Canadian vehicles.	60	0
8140080	O	LED Stop/Turn/Tail/Backup Bracket mounted left-hand / right-hand end of frame	140	-7
8140850	O	Moveable EOF Crossmember For Mounting Tail Lights Square end of frame with or without end of frame crossmember	78	1
Paint				
8500710	S	Standard Paint Color Selection	-200	0
8530770	S	(1) Color Axalta Two Stage - Cab/Hood Base Coat/Clear Coat N85020 A - L0006EY WHITE N85500 CAB ROOF L0006EY WHITE N85300 FENDER L0006EY WHITE N85200 FRAME L0001EA BLACK N85400 HOOD TOP L0006EY WHITE	0	0

Shipping Destination

Price Level: July 1, 2020
Deal: JDC SINGLE AXLE 2022
Printed On: 3/26/2021 9:33:34 AM

Date: March 26, 2021
Quote Number: QUO-800608-X6G9M2



Sales Code	Std/Opt	Description	\$ List	Weight
8999989	O	Shipping Destination To Dealership	0	0
Options Not Subject To Discount				
9400094	S	PACCAR PX-9 Standard Coverage 2 yrs/250,000 mi (402,336 km)/6,250 hrs	0	0
9400096	O	Peterbilt Severe Service Coverage 1 Year/50,000 Miles (80,000 km)	0	0
9408936	O	Frame Layout Identical to Previous Chassis Narr 479674	475	0
Miscellaneous				
9409831	O	2021 EPA Emissions Engine Warranty Only	0	0

Total Weight 12,704

Prices and Specifications Subject to Change Without Notice.

Unpublished options may require review/approval.
Dimensional and performance data for unpublished options may vary from that displayed in CRM.

PRICING DISCLAIMER

While we make every effort to maintain the web site to preserve pricing accuracy, prices are subject to change without notice. Although the information in this price list is presented in good faith and believed to be correct at the time of printing, we make no representations or warranties as to the completeness or accuracy of this information. We reserve the right to change, delete or otherwise modify the pricing information which is represented herein without any prior notice. We carefully check pricing specifications, but occasionally errors can occur, therefore we reserve the right to change such prices without notice. We disclaim all liability for any errors or omissions in the materials. In no event will we be responsible for any damages of any nature whatsoever from the reliance upon information from these materials. Please check your order prebills to confirm your pricing information

THIS CHANGES
EVERYTHING.
AGAIN.



VACTOR[®]
2100i

THE NEW VACTOR® 2100i. SIMPLY BETTER.



intuitive. intelligent. innovative. individualized. incomparable.

These words describe the new Vactor 2100i. Add it all together and you have a machine that combines proven performance with a new level of simplicity and ease. With an emphasis on ergonomics, Vactor has engineered an array of innovations that together speeds work, reduces fatigue on your operators, and lets them focus on the work in front of them, not the machine behind them. Among the host of innovations you'll find on the 2100i are:

- New IntuiTouch™ single in-cab control screen for PTO/Transfer Case Activation that is as simple as pushing a button
- New IntuiTouch operator control station that features a singular, adjustable control panel for operator ease and comfort during all sewer cleaning functions
- New 7" easy-to-read screen at the operator's station to monitor critical data from the sewer cleaning system and chassis
- New optional wireless controls, including updated belly pack and handheld remotes featuring a view screen for monitoring key operational functions when working away from the truck
- New optional RDB 1015™ Rapid Deployment Boom telescopes out 10 feet and extends the debris hose down 15 feet minimizing the need for additional tubes, speeding and easing set-up and tear-down

The new 2100i is truly the evolution of a revolution that is not just easier to operate...it's easier on the operator

VACTOR 2100i. INTUITIVE IN EVERY WAY.

New IntuiTouch® one-touch in-cab controls redefine simplicity

- 7" touch screen control features backlit tactile buttons
- Includes controls and viewing screen for camera, lighting, recirculation and PTO/Transfer case activation
- One-Touch engagement to activate PTO and transfer case – allowing operators to gain control of all operational systems
- Operator can view the current operating mode, recirculation status, flows, pressures and more



New IntuiTouch control station puts all cleaning system functions into a single, simple control panel

- Articulating controls with up/down adjustment for individualized maximum comfort – articulation allows the control panel to adjust on a 90 degree arc for better access and screen visibility while operating the hose reel and boom
- All controls are consolidated into a single control panel including a 7" dashboard screen with glove-friendly tactile buttons featuring at-a-glance data for water pressure and flow, hose footage, chassis RPM, vacuum information, water level*, debris tank level* and more



IntuiTouch 

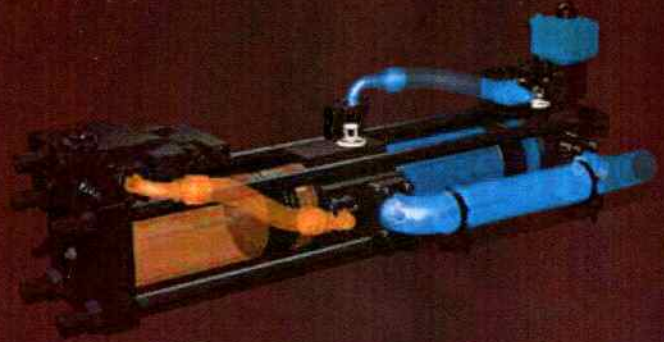
- New, reliable touch buttons with backlit feedback enable the operator to know if a selected function is active
- The new hose reel joystick significantly improves response time and pays in and out in the direction of the hose reel
- The boom joystick has a telescoping feature built in, giving the operator full mobility with multiple direction boom movement for quicker set up
- Operators have full control of the water system via a single Multi-Flow control dial – enabling them to precisely match the flow and pressure to the job requirements
- E-stops located at all operator control points bring the unit to a safe condition to protect both the operator and the equipment

*Optional equipment

UP AND DOWN, FRONT AND BACK THE VACTOR 2100i OFFERS YOU GREATER OPERATING EASE AND EFFICIENCY.

- JetRodder® Water Pump

- Uniquely designed for sewer cleaning, the JetRodder Water Pump provides smooth continuous flows through its entire operating range – ranges available from 0 to 100 GPM and pressures up to 3000 PSI
 - Easily activated, powerful “Jackhammer” action for long runs or difficult blockages
 - The slow movements of its five moving parts make the Vactor JetRodder pump the industry leader in longevity and carefree maintenance
- Vactor’s Multi-Flow system lets operators set the flow at a lower rpm resulting in better fuel economy without sacrificing performance
 - Vactor’s unique air-routing and filtration system get the work done faster, safer, and more productively
 - All water valves are located in the same mid-ship control station, reducing the amount of walking back and forth around the truck by the operator
 - The quieter engine design, high ground clearance, lower water fill point, and twist-and-lock pipe restraints enhance the operator experience
 - The hose reel can telescope out up to 15 inches and rotate up to 270° for optimal positioning
 - Vactor’s water tank system is designed and built with high quality, high-strength light weight aluminum for maximum capacity and maintaining a low center of gravity – the tanks feature superior corrosion resistance and are backed by a 10-year standard warranty
 - Unique Modul-Flex design provides for maximum capacities and optimum weight distribution on every truck
 - Standard 60 inch (1524 mm) high dump enables you to unload debris into roll-offs up to 5-feet (1.524 m) high without requiring a lift or ramp

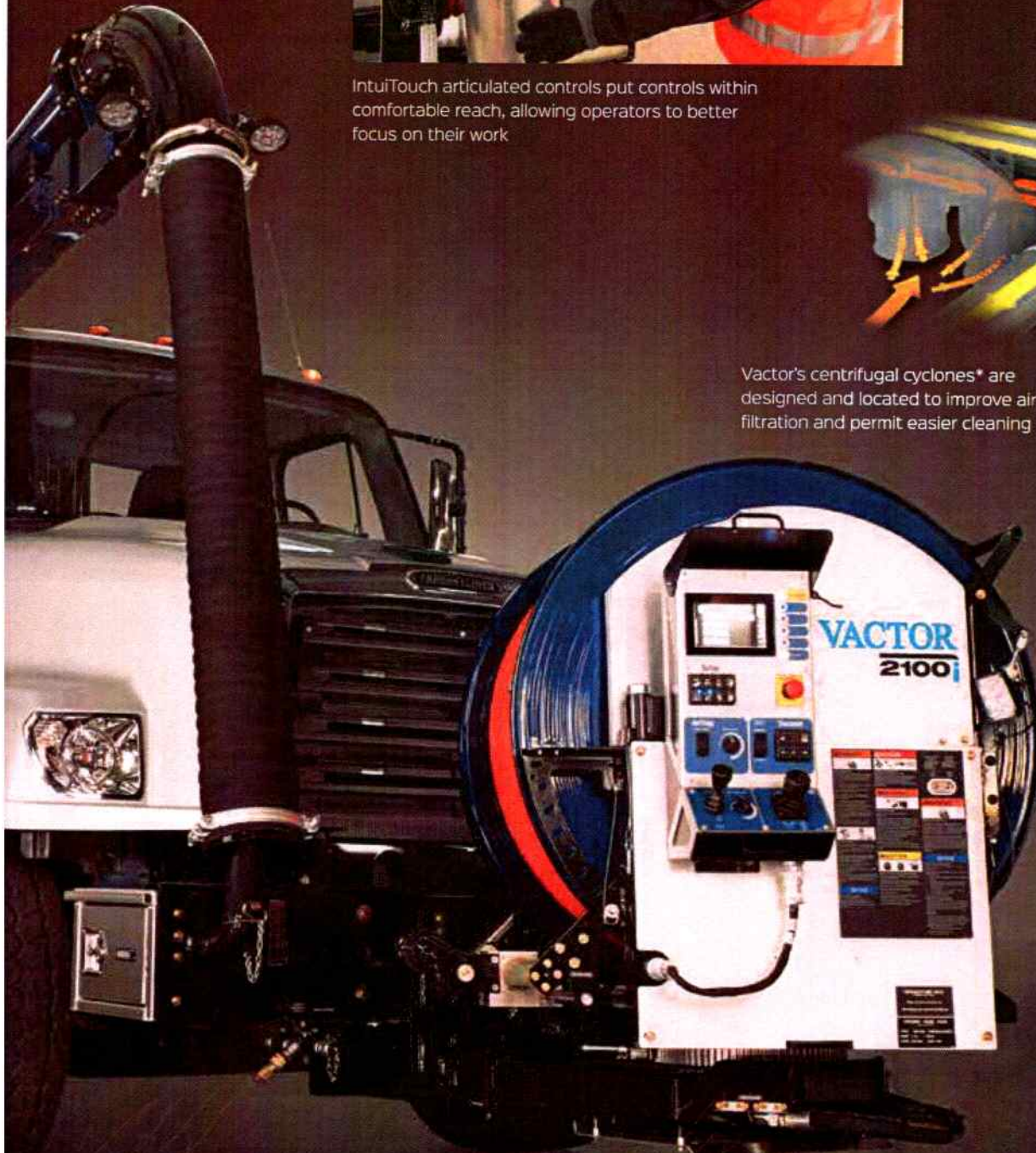




IntuiTouch articulated controls put controls within comfortable reach, allowing operators to better focus on their work



Vector's centrifugal cyclones* are designed and located to improve air filtration and permit easier cleaning

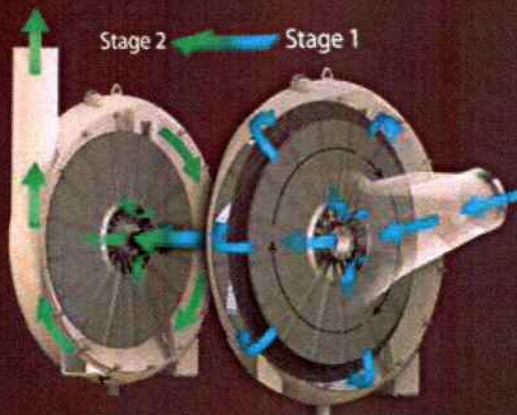
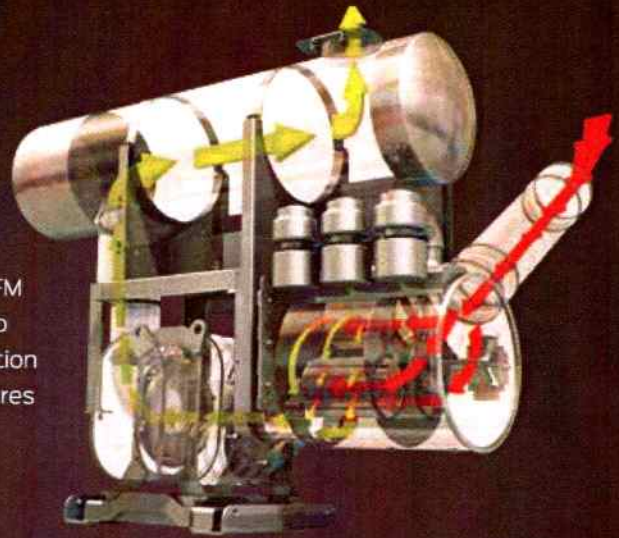


*Optional equipment

THE VACTOR 2100i COMES IN THE CONFIGURATIONS YOU NEED.

Our Positive Displacement (PD) model is ideal for pulling material long distances

With blower offerings providing inlet volumes in excess of 5000 CFM and 18 Hg vacuum, the Vactor 2100i PD is the machine you need to tackle your deepest pulls. In addition, our multi-stage blower filtration system is the most productive of its kind, and unique design features make the 2100i the most operator friendly unit available.



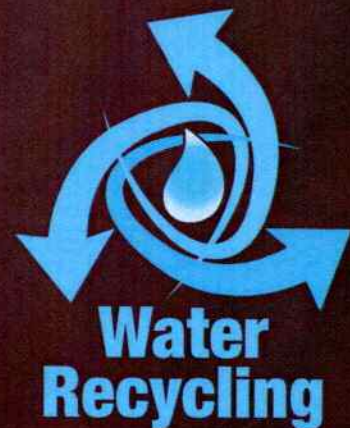
For all around service, choose a single engine, single or dual stage fan model

Vactor's fan system is the right choice for all-around sanitary and storm sewer cleaning. Whether equipped with a single or dual (for greater vacuum) fan system, our lightweight, perfectly balanced aluminum fan provides superior performance to handle your toughest jobs. Our unique system also minimizes energy consumption while maximizing performance.

Our water recycling model saves thousands of gallons of clean water every shift

Simple to operate, our self-cleaning system offers significant advantages:

- Absolute water filtration to 100 micron particle sizes eliminates most abrasive particles to protect the water pump, hoses, nozzles, and sewer lines
- 5-stage filtration system combines settling, centrifugal separation and absolute filtration to 100 microns
- Simultaneous operation recycles water while cleaning lines
- No moving parts in the body or tanks
- Never a need to enter a body or tank to maintain the system components



CUSTOMIZE YOUR 2100i WITH PERFORMANCE DRIVEN OPTIONS.

Our RDB 1015 Rapid Deployment Boom **RDB 1015™**

Our revolutionary new boom telescopes 10 feet out and extends the debris hose down 15 feet speeding work, and, in many cases, eliminating the need for additional tubes, reducing operator fatigue. The RDB 1015 offers you:

- Dramatic reduction in set-up and tear-down time with boom's ability to pay-in and pay-out 15 feet of vacuum hose
- Reach greater depths without raising the position of the boom to enhance speed and efficiency
- The ability to work in areas of low overhead clearance without raising the boom and still reach needed depths



New wireless controls

Vactor has enhanced its wireless controls with new belly pack and handheld remotes that feature two-way data transmission, including active pressure and flow information for the water and the ability to monitor hose footage being paid out or retracted. Our wireless controls also allow:

- Extensive operation with greater control away from the fixed operator station
- Multiple control functions including hose reel control, boom control, e-stop and more



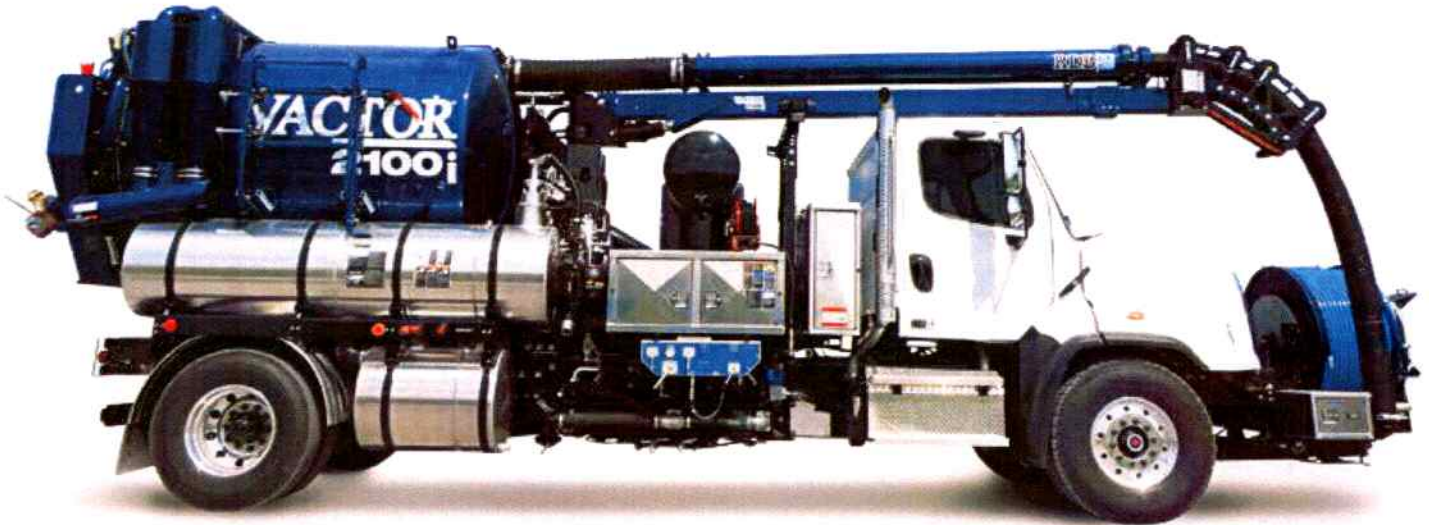
Over 100 precision-engineered enhancements are available, including:

- Cold weather recirculation system
- Liquid debris pump-off system
- Debris flush-out system
- Fail-safe hydraulic door locking system
- Water tank capacity up to 1,500 gallons (5,678 L)
- Pump delivery system up to 120 gpm
- Hose reel capacity up to 1,000 ft. (305 m)
- Automatic hose level wind guide
- Safety warning lighting packages
- Hydro-Excavation Kits

Demo the new Vactor 2100i today.
Visit Vactor.com to find your local dealer.

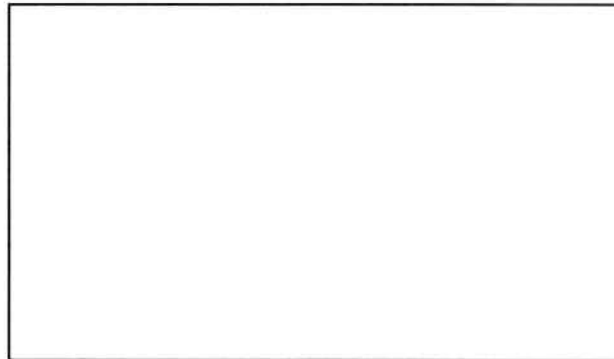
THE NEW VACTOR 2100i

Performance you expect from a proven leader.



For nearly half a century, Vactor® Manufacturing has been the leader in building combination sewer cleaners that offer innovations and design advantages that drive productivity, enhance operator performance and security, and bring operations large and small greater economy and efficiency. With the new Vactor 2100i, we have once again raised the bar, bringing you a new level of operating ease and greater control.

More than a manufacturer, Vactor offers you customized solutions featuring unmatched quality and backed by powerful support. When the rain is falling and the water is rising, Vactor is the brand you can trust.



VACTOR
Subsidiary of Federal Signal Corporation

vactor.com

Vactor Manufacturing, Inc. • 1621 South Illinois Street • Streator, IL 61364 USA
Phone 815.672.3171 • Fax 815.672.2779

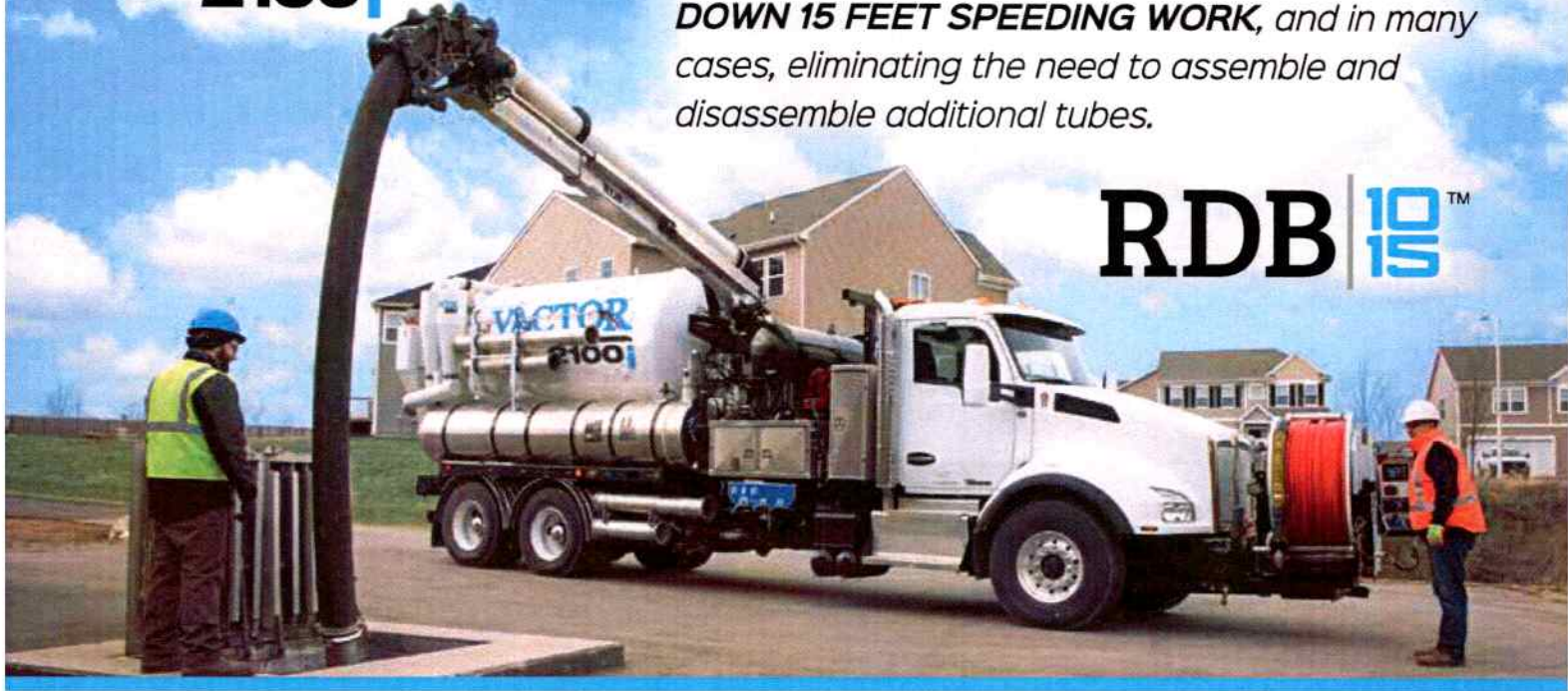
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Effective Date 6/20 P/N 00107-1 ©2020 Vactor Manufacturing

VECTOR 2100i

Vector's revolutionary new boom telescopes **10 FEET OUT** and extends the **DEBRIS HOSE DOWN 15 FEET SPEEDING WORK**, and in many cases, eliminating the need to assemble and disassemble additional tubes.

RDB | 10¹⁵™



RAPID DEPLOYMENT BOOM

Retrofitable to all 2100 Plus Series Vectors

The RDB 1015™ Offers You:

- Dramatic reduction in set-up and tear-down time with boom's ability to pay-in and pay-out 15 feet of vacuum hose
- The ability to work in areas of low overhead clearance without raising the boom and still reach needed depths with enhanced speed and efficiency
- Transport with catch basin tube attached to start work immediately, or without it for unmatched visibility
- No additional operator maintenance over a traditional 10' telescoping boom



Left unit features the RDB boom and the right unit features the telescopic boom with added tubes.

Retro Kit Available:

- Telescopic Boom P/N 510816B-30
- 5x5 Boom P/N 510816A-30

See this revolutionary boom
in action at vector.com

1621 South Illinois Street • Streator, IL 61364 • (815) 672-3171

*Patent Pending ©2018 Vector Manufacturing Effective 11/18 P/N: 00230-B

Your local vector dealer is:

LIMITED WARRANTY

Limited Warranty. Each machine manufactured by VACTOR MANUFACTURING (or, "the Company") is warranted against defects in material and workmanship for a period of 12 months, provided the machine is used in a normal and reasonable manner and in accordance with all operating, maintenance and safety instructions. In addition, certain machines and components of certain machines have extended warranties as set forth below. If sold to an end user, the applicable warranty period commences from the date of delivery to the end user. If used for rental purposes, the applicable warranty period commences from the date the machine is first made available for rental by the Company or its representative. This limited warranty may be enforced by any subsequent transferee during the warranty period. This limited warranty is the sole and exclusive warranty given by the Company.

STANDARD EXTENDED WARRANTIES (Total Warranty Duration)

2100 Series, IMPACT and Ramjet	10 years against metal water tank leakage due to corrosion. Nonmetallic water tanks are covered for 5 years against any factory defect in material or workmanship.
2100 Series, IMPACT and Guzzler only	5 years against leakage of debris tank, centrifugal compressor or fan housing due to rust-through.
2100 Series, iMPACT and Ramjet	2 years - Vactor Rodder Pump
All Models	2 year- Electrical & Electronics (excludes Chassis components)

Exclusive Remedy. Should any warranted product fail during the warranty period, the Company will cause to be repaired or replaced, as the Company may elect, any part or parts of such machine that the Company's examination discloses to be defective in material or factory workmanship. Repairs or replacements are to be made at the selling Company's authorized dealer's or distributor's location or at other locations approved by the Company. In lieu of repair or replacement, the Company may elect, at its sole discretion, to refund the purchase price of any product deemed defective. The foregoing remedies shall be the sole and exclusive remedies of any party making a valid warranty claim.

This Limited Warranty shall not apply to (and the Company shall not be responsible for):

1. Major components or trade accessories that have a separate warranty from their original manufacturer, such as, but not limited to, trucks and truck chassis, engines, hydraulic pumps and motors, tires and batteries.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as, but not limited to, oils, fluids, vacuum hose, light bulbs, fuses and gaskets.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended, nor intended, or not in accordance with operating, maintenance or safety instructions provided by the Company.
5. Repairs, modifications or alterations without the express written consent of the Company, which in the Company's sole judgment, have adversely affected the machine's stability, operation or reliability as originally designed and manufactured.
6. Items subject to misuse, negligence, accident or improper maintenance.

NOTE The use in the product of any part other than parts approved by the Company may invalidate this warranty. The Company reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty. Nothing contained in this warranty shall make the Company liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

THIS WARRANTY SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND TO THE EXTENT PERMITTED, CONFERRED BY STATUTE, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, OR A WARRANTY AGAINST FAILURE OF ITS ESSENTIAL PURPOSE, ALL OF WHICH ARE DISCLAIMED.

This warranty is in lieu of all other obligations or liabilities, contractual and otherwise, on the part of the Company. For the avoidance of doubt, the Company shall not be liable for any indirect, special, incidental or consequential damages, including, but not limited to, loss of use or lost profits. The Company makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine. No person or affiliated company representative is authorized to alter the terms of this warranty, to give any other warranties or to assume any other liability on behalf of the Company in connection with the sale, servicing or repair of any machine manufactured by the Company. Any legal action based hereon must be commenced within eighteen (18) months of the event or facts giving rise to such action.

The Company reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.

GUZZLER

VACTOR MANUFACTURING
1621 S. Illinois Street
Streator, IL 61364

VACTOR

3-8-2021

Vactor 2100i References - Michigan

Revised 07/31/21

	Customer	Contact / Phone	Model / Capacities Boom Type	GPM / PSI Vacuum	Chassis Drive-Line	Delivery / In-service
1	City of Port Huron	Mr. Shawn Eagle 810-984-9771	2110i - 10yrd/1000gal 10x15 RD Boom	80 / 2500 SE1-Fan	FL114-4x2 L9/3000RDS	September 2018
2	City of River Rouge	Mr. Chris Beaudre 313-842-6482	2110i - 10yrd/1000gal Std 10' Tele Boom	80 / 2500 SE1-Fan	FL114-4x2 L9/3000RDS	September 2018
3	City of Troy	Mr. Brian Varney 248-680-7281	2115i - 15yrd/1500gal 10x15 RD Boom	80 / 2500 SE2-Fan	FL114-6x4 L9/3000RDS	December 2018
4	Taplin Group	Mr. Steve A. Taplin 269-760-4964	2112i 12yrd/1500gal 10x15 RDB Boom	100/2500 824-18"PD	Kenworth T880 X15/4000RDS	February 2019
5	City of St. Louis	Mr. Mark Abbott 989-763-8478	2110i - 10yrd/1000gal 10x15 RD Boom	80 / 2500 SE1-Fan	FL114-4x2 L9/3000RDS	February 2019
6	Genesee Co. Rd Comm.	Ms. Kim Day 810-767-4920	2115i - 15yrd/1500gal 10x15 RD Boom	100 / 2000 824-18" PD	FL114-6x4 L9/3000RDS	March 2019
7	City of Farmington	Mr. Chuck Eudy 248-473-7250	2110i824-70A 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 L9/3000RDS	July 2019
8	W. Bloomfield Township	Mr. Ed Haapala 248-451-4785	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 L9/3000RDS	July 2019
9	Detroit Water & Sewer (2) units	Mr. Steve Kosanke 586-718-8667	2115i 15yrd/ReCycler 10 x 15 RD Boom	100/2500 824-18"PD	Mack 6x4 15L/4000RDS	July 2019
10	City of Wayne	Mr. Ed Queen 734-721-8600	2115i - 15yrd/1500gal Std 10' Tele Boom	100 / 2000 824-18" PD	FL114-6x4 L9/3000RDS	August 2019
11	Harrison Charter Township	Mr. Justin Murphy 586-405-2896	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 L9/3000RDS	August 2019
12	Shelby Charter Township	Mr. Frank Nastasy 586-924-4360	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 ISL9/3000RDS	September 2019
13	City of Inkster	Mr. Jerome Bivins 313-563-9774	2115i - 15yrd/1500gal 10x15 RD Boom	100 / 2000 824-18" PD	FL114-6x4 L9/3000RDS	September 2019
14	City of Garden City	Mr. Steve Michalak 734-536-9821	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 SE1-Fan	FL114-4x2 L9/3000RDS	October 2019
15	City of Flint - (4) Units	Mr. Tracy Sumner 810-691-5366	2115i - 15yrd/1500gal 10x15 RD Boom	100 / 2000 824-18" PD	FL114-6x4 ISL9/3000RDS	December 2019
16	City of Ann Arbor #1	Mr. Paul Matthews 734-794-6350	2115i - 15yrd/1500gal 10x15 RD Boom	70 / 3000 824-18" PD	WS4700-6x4 L9/3000RDS	December 2019

	Customer	Contact / Phone	Model / Capacities Boom Type	GPM / PSI Vacuum	Chassis Drive-Line	Delivery / In-service
17	City of Grosse Pte. Woods	Mr. Jim Kowalski 313-343-2460	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 L9/3000RDS	February 2020
18	City of Fenton	Mr. Scott Gordon 810-629-4605	2115i - 15yrd/1500gal 10x15 RD Boom	80 / 2500 SE2-Fan	FL114-6x4 L9/3000RDS	February 2020
19	City of Ypsilanti	Mr. John Sherwood 734-485-1316	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 SE1-Fan	FL114-4x2 L9/3000RDS	March 2020
20	City of Taylor	Mr. Steve Svireff 734-748-8807	2115i - 15yrd/1500gal Std 10' Tele Boom	70 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	March 2020
21	Houghton Lake Sewer Authority	Mr. John Hines 989-239-5566	2115i 15yrd/1500gal 10x15 RDB Boom	80/2500 824-18"PD	KW-880T 6x4 X15/4000RDS	March 2020
22	Ingham County Drain	Mr. Sheldon Lewis 517-676-8392	2115i 15yrd/1500gal 10 x 15 RD Boom	80 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	May 2020
23	Washington Township	Mr. Kirk Conger 586-752-1052	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 L9/3000RDS	October 2020
24	City of Ann Arbor #2	Mr. Paul Matthews 734-794-6350	2115i 15yrd/ReCycler 10x15 RD Boom	80 / 2500 824-18" PD	WS4700-6x4 X12/4000RDS	October 2020
25	Great Lakes Water Authority	Mr. David Banka 313-267-1381	2115i - 15yrd/1500gal Std 10' Tele Boom	100/2500 824-18"PD	Mack 6x4 15L/4000RDS	December 2020
26	Great Lakes Water Authority	Mr. David Banka 313-267-1381	2115i 15yrd/1500gal 10x15 RDB Boom	100/2500 824-18"PD	Mack 6x4 15L/4000RDS	December 2020
27	City of Auburn Hills	Mr. Mark Michling 248-391-3777	2115i 15yrd/1500gal 10x15 RDB Boom	80 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	December 2020
28	Washtenaw Co. Drain	Mr. Bill Fults 734-222-3883	2115i 15yrd/1500gal Std 10' Tele Boom	100/2000 824-18"PD	KW-880T 6x4 X15/4000RDS	March 2021
29	City of Monroe	Mr. Scott Calloway 734-241-5926	2115i - 15yrd/1500gal Std 10' Tele Boom	80 / 2500 824-18" PD	WS-4700 6x4 L9/3000RDS	March 2021
30	City of Dearborn	Mr. Ryan Ferrell 313-943-2781	2115i - 15yrd/1500gal Std 10' Tele Boom	80 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	April 2021
31	City of Livonia	Mr. Tom Wilson 734-478-7438	2115i - 15yrd/1500gal 10x15 RD Boom	80 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	April 2021
32	Livingston Co. Drain	Mr. Rob Quigley 517-672-6780	2115i - 15yrd/1500gal Std 10' Tele Boom	80 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	June 2021
33	Oakland Co. Road Commission - RCOC	Mr. Steven Guerra 248-858-4809	2115i - 15yrd/1500gal 10x15 RD Boom	80 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	May 2021
34	Genesee Co. Drain	Mr. Lony Smith 810-732-7870	2115i - 15yrd/1500gal Std 10' Tele Boom	100 / 2000 824-18" PD	FL114-6x4 L9/3000RDS	June 2021
35	Village of Milford	Mr. Mike Karll 248-685-3055	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 L9/3000RDS	July 2021
36	City of New Baltimore	John Klimaszewski 586-894-2096	2115i - 15yrd/1500gal 10x15 RD Boom	80 / 2500 824-18" PD	FL114-6x4 L9/3000RDS	August 2021
37	City of Brighton	Mr. Cory Brooks 810-227-9479	2110i - 10yrd/1000gal 10x15 RD Boom	70 / 3000 824-18" PD	FL114-4x2 L9/3000RDS	On Order 2021
38	City of Davison	Mr. Brian Gist 810-653-2191	2110i - 10yrd/1000gal Std 10' Tele Boom	80 / 2500 824-18" PD	FL114-4x2 L9/3000RDS	On Order 2021

List

Selected

1	2110P-18	2100i PD, 18" Vacuum, 10 yrd Debris, Combo	\$249,218.00	\$249,218.00
1	2014PSTD	1000 Gallons STD (10 yrd)	STD	STD
1	5002PA	80 GPM/2500 PSI	STD	STD
1	010PSTD	48w x 22h x 24d Curbside Toolbox	STD	STD
1	011PSTD	Aluminum Fenders	STD	STD
1	012PSTD	Mud Flaps	STD	STD
1	014PSTD	Electric/Hydraulic Four Way Boom	STD	STD
1	016PSTD	Color Coded Sealed Electrical System	STD	STD
1	019PASTD	Intuitouch Electronic Package	STD	STD
1	020PSTD	Double Acting Hoist Cylinder	STD	STD
1	025PSTD	Handgun Assembly w/35' x 1/2" Hose w/Quick Disconnects	STD	STD
1	026PSTD	Ex-Ten Steel Cylindrical Debris Tank	STD	STD
1	030PSTD	Flexible Hose Guide	STD	STD
1	032PSTD	(3) Nozzles with Carbide Inserts w/Rack	STD	STD
1	045PASTD	Suction Tube Storage - 2 Pipe	STD	STD
1	046PSTD	1" Nozzle Pipe	STD	STD
1	048PSTD	10' Leader Hose	STD	STD
1	1001PSTD	Flat Rear Door w/Hydraulic Locks	STD	STD
1	1005PSTD	Dual Stainless Steel Float Shut Off System	STD	STD
1	1016PSTD	Microstrainer Prior to Blower	STD	STD
1	1024PSTD	Debris Body Vacuum Relief System	STD	STD
1	1031PSTD	Debris Deflector Plate	STD	STD
1	1032PSTD	48" Dump Height	STD	STD
1	2001PSTD	Low Water Alarm with Water Pump Flow Indicator	STD	STD
1	2011PSTD	3" Y-Strainer at Passenger Side Fill	STD	STD
1	2022PSTD	Additional Water Tank Sight Gauge	STD	STD
1	2023PSTD	Liquid Float Level Indicator	STD	STD
1	3019PSTD	Digital Water Pressure Gauge	STD	STD
1	4006PSTD	Joystick Boom Control	STD	STD
1	4010PSTD	Boom Hose Storage, Post for 10 x 15 RDB	STD	STD
1	5010PSTD	Rodder System Accumulator - Jack Hammer on/off Control w/ manual valve	STD	STD
1	5011PSTD	3" Y-Strainer @ Water Pump	STD	STD
1	5012PSTD	Performance Package	STD	STD
1	5014PSTD	1" Water Relief Valve	STD	STD
1	5015PSTD	Midship High Pressure Coupling	STD	STD
1	5019PSTD	Chassis Engine Cooling Package	STD	STD
1	5022PSTD	Side Mounted Water Pump	STD	STD
1	6005PDSTD	Digital Hose Footage Counter	STD	STD
1	6007PSTD	Hose Reel Manual Hyd Extend/Retract	STD	STD
1	6009PSTD	Hose Reel Chain Cover	STD	STD
1	6020PBSTD	Hydraulic Extending 15", Rotating Hose Reel, 1" x 800' Capacity	STD	STD
1	6017PSTD	Hydraulic Tank Shutoff Valves	STD	STD
1	7001PSTD	Tachometer/Chassis Engine w/Hourmeter	STD	STD
1	7003PSTD	Water Pump Hour Meter	STD	STD
1	7004PSTD	PTO Hour Meter	STD	STD

Customer Initials: _____

1	7005PSTD	Hydraulic Oil Temp Alarm	STD	STD
1	7007PSTD	Tachometer & Hourmeter/Blower	STD	STD
1	8000PSTD	Circuit Breakers	STD	STD
1	8025PSTD	LED Lights, Clearance, Back-up, Stop, Tail & Turn	STD	STD
1	9002PSTD	Tow Hooks, Front	STD	STD
1	9002PSTD	Tow Hooks, Rear	STD	STD
1	9003PSTD	Electronic Back-Up Alarm	STD	STD
1	9021PSTD	Camera System, Rear Only	STD	STD
1	S390BSTD	7" Vacuum Pipe Package	STD	STD
1	S560STD	Emergency Flare Kit	STD	STD
1	S590STD	Fire Extinguisher 5 Lbs.	STD	STD
1	1003P	Debris Body Washout	\$1,592.00	\$1,592.00
1	1008P	6" Rear Door Knife Valve w/Camloc, 3:00 position	\$1,272.00	\$1,272.00
1	1008PA	6" Rear Door Knife Valve w/Camloc w/Port & Fixed Basket Screen, 6:00 position	\$1,517.00	\$1,517.00
1	1009P	Internally Mounted Trash Pump w/Screen	\$11,094.00	\$11,094.00
1	1010P	Pump Off Plumbing, Outlet Location will be dependent on supplied chassis	\$3,061.00	\$3,061.00
1	1014P	Centrifugal Separators (Cyclones)	\$5,567.00	\$5,567.00
1	1015PG	Folding Pipe Rack, Curbside, 7" Pipe	\$1,104.00	\$1,104.00
1	1015PBKSTD	Fixed Rear Door Pipe Rack, 7" Pipe	\$0.00	\$0.00
1	1022P	Rear Door Splash Shield	\$1,621.00	\$1,621.00
1	1023P	Lube Manifold	\$2,407.00	\$2,407.00
1	1023PA	Plastic Lube Chart, included with Lube Manifold	STD	STD
1	3020P	Digital Water Level Indicator	\$709.00	\$709.00
1	3021P	Digital Debris Body Level Indicator	\$950.00	\$950.00
1	4016P	180 deg. 10' x 15' Rapid Deployment Boom	\$22,752.00	\$22,752.00
1	4011PB	Bellypack Wireless Controls with hose reel controls, 2-way communications, and LCD Display	\$3,280.00	\$3,280.00
1	4013PB	Rotatable Boom Inlet Hose, 10 x 15 RDB	\$596.00	\$596.00
1	5008PB	Cold Weather Recirculator, PTO Driven, 25 GPM	\$1,809.00	\$1,809.00
1	5029PA	RDB Washout Coupling	\$111.00	\$111.00
1	6002PB	600' x 1" Piranha Sewer Hose 2500 PSI in lieu of STD	\$955.00	\$955.00
1	6007PB	Hose Wind Guide (Dual Roller), Auto, Indexing with Pinch Roller	\$5,365.00	\$5,365.00
1	6014P	High Pressured Hose Reel	\$1,539.00	\$1,539.00
1	6019P	Rodder Pump Drain Valves	\$515.00	\$515.00
1	8001PM	Rear Directional Control, LED Arrowstick	\$1,854.00	\$1,854.00
1	8002PA	Waterproof, Rechargeable, Wireless, Handheld, LED Spot Light w/12V Charger and Plug	\$373.00	\$373.00
1	8020PH	10 Light Package, 10 Federal Signal Strobe Lights, LED	\$2,202.00	\$2,202.00
1	8027P	LED Mid-Ship Turn Signals	\$561.00	\$561.00
1	8028P	Worklights (2), LED, 10 x 15 RDB	\$829.00	\$829.00
1	9070PA	Toolbox, Front Bumper Mounted, 16 x 12 x 18 w/(2) LED Side Markers	\$2,057.00	\$2,057.00
1	9071PF	Toolbox, Behind Cab - 14w x 36h x 96d	\$3,306.00	\$3,306.00
1	P112STD	Module Paint, DuPont Imron Elite - Sanded Primer Base	STD	STD

Customer Initials: _____

1	P124STD	Vactor 2100i Body Decal, Standard	STD	STD
1	LOGO-APPL.	Vactor/Guzzler Logos - Applied	STD	STD
1	500655B-30	Vactor Standard Manual and USB Version - 1 + Dealer	STD	STD
1	Chassis- Mod	Chassis Modifications Charges	\$700.00	\$700.00
Chassis:				
1	348370SA	JDC Supplied Chassis: 2022 Peterbilt 348 Single Axle Chassis, Paccar 9L, 370 HP Engine, Allison 3000 RDS Automatic Transmission	\$ 97,350.00	\$ 97,350.00
Non-Sourcewell Options:				Sale Price
1	JDC	Earthquaker Plus (Lances, Gun, Vac Tube & Nozzles)	\$ 1,300.00	\$ 1,300.00
1		Bulldog Antiblaster	\$ 3,200.00	\$ 3,200.00

Module Paint Color - Red

Cab Color - Red

Sourcewell Build-Proposal Summary

Module/Options Total:	\$328,916.00
Options Sourcewell Discount 3%:	\$ 9,867.48
Module/Options Total per Sourcewell Price Schedule:	\$ 319,048.52
Non Sourcewell Options Total:	\$ 4,500.00
Total with Module and All Options:	\$ 323,548.00
JDC Supplied Chassis:	\$ 97,350.00
Total with Module, Options, and Chassis:	\$ 420,898.00
Freight and PDI:	included
Field Training:	included
Total:	\$ 420,898.00

Terms and Conditions

Acceptance of this Proposal is subject to availability of the Equipment listed above.

Sales Price does not include any applicable sales taxes. Buyer is responsible for and agrees to pay all applicable sales tax.

The Sale of New Equipment Terms and Conditions are incorporated into and made a part of this Proposal upon acceptance and execution of this Proposal by both parties.

Execution of this Proposal by Seller and Buyer constitutes a binding agreement between the parties.

If this Proposal is not executed by both parties within thirty (30) calendar days from the Proposal Date, this Proposal shall become null and void, unless subsequently executed by both Buyer and

Customer Initials: _____

Thank you for your consideration of this proposal.

Sincerely yours,

Adam Mazzara

Adam Mazzara

Parts & Service Sales Representative

608/712-6893

AdamMazzara@dohenycompany.com

This proposal becomes a contract for delivery and payment of the merchandise listed above only when signed by the customer or one of its officers.

Customer: _____

By: _____

Date: _____

Customer Initials: _____

SALE OF NEW EQUIPMENT TERMS AND CONDITIONS

1. **THE AGREEMENT.** Jack Doheny Companies, Inc., (the "Seller") agrees to sell, transfer and convey its right, title and interest in the new goods, equipment, vehicles and/or other new items (collectively, the "Equipment") described in Seller's written Invoice for the Sale of New Equipment (the "Invoice") to the Buyer subject to the terms and conditions contained herein, which are incorporated into the Invoice, agreed to by the parties hereto, and together consists of the entire agreement between the Seller and Buyer (collectively, the "Agreement"). The Agreement shall be for the benefit of the Seller and Buyer and not for the benefit of any other person or entity. Prior courses of dealing, trade usage and verbal agreements not reduced to a writing signed by the Seller and Buyer, to the extent they differ from, modify, add to or change from the Agreement shall not be binding on the Seller.
2. **TERMS OF PAYMENT.**
 - 2.1 **Payment Date.** All payments for the Equipment are due from Buyer on the date of the invoice unless other terms are agreed to in writing between Seller and Buyer. Payment shall be made to Seller at the address specified in the Agreement, without any offset or deduction for any reason.
 - 2.2 **Shipping Delays.** If any shipment is delayed at the request of Buyer, payment shall become due based on the date Seller is prepared to make shipment, and Seller may invoice Buyer based on such date. All prices for Equipment are F.O.B. Seller's shipping point.
 - 2.3 **Delinquent Payments.**
 - 2.3.1 Any payment not made by Buyer on or before its due date shall be subject to a late charge on any unpaid balance at a rate of 18% per annum, or the highest interest rate allowed by law, whichever is greater.
 - 2.3.2 If a payment is not made on or before its due date, Buyer agrees that Seller may elect, in addition to any other remedy at law or in equity, to cease performance under the Agreement and any other agreement between Buyer and Seller until such payment is rendered to Seller.
3. **DELIVERY.** Seller does not guarantee delivery dates.
4. **RISK OF LOSS.** Buyer assumes all risk of loss of Equipment upon delivery by Seller to carrier if Equipment is shipped. For Equipment that is shipped, Seller agrees to: (a) prepare the Equipment for shipment to Buyer; (b) deliver custody of the Equipment to carrier; (c) make appropriate arrangements for the transportation to carrier; and deliver documents to enable Buyer to obtain possession of the Equipment. Seller shall not be obligated to obtain insurance or to prepay transportation/carrier costs for the Equipment. Buyer agrees to be responsible for and to timely pay all loading, unloading and other charges incidental to transportation of the Equipment. Whether Seller pays transportation charges or not, risk of loss shall pass to Buyer upon delivery of the Equipment to a carrier.
5. **INSPECTION OF EQUIPMENT.** Buyer has inspected the Equipment and is satisfied with the Equipment's condition.
6. **INDEMNIFICATION.** Buyer shall indemnify, hold harmless and release Seller from any and all liabilities, losses, damages, claims, costs and expenses, including attorney fees, arising out of, in whole or in part, from (a) the design, or manufacture of the Equipment; or (b) the use of the Equipment by Buyer and those acting on Buyer's behalf.
7. **MISCELLANEOUS.**
 - 7.1 **No Assignment.** There shall be no assignment of the Agreement by Buyer without the prior written approval of Seller. Any assignment of the Agreement shall not relieve Buyer of its obligations under the Agreement.
 - 7.2 **Force Majeure.** Neither party will be liable for any delay or failure to perform its obligations hereunder, other than a payment obligation, due to any cause beyond its reasonable control including without limitation, acts of God or of the public enemy, including terrorists, acts of the government in its sovereign capacity, fires, floods, epidemic, strikes, picketing or boycotts, or any other circumstances caused by natural occurrences or third party actions beyond the reasonable control and without the fault or negligence of the party whose performance is affected ("Force Majeure Events"); provided that the affected party provides the other party prompt notice of the applicable circumstance and uses commercially reasonable efforts to re-commence performance as promptly as possible; provided, further, that if the duration of such Force Majeure Event exceeds thirty (30) days, the other party may terminate the Agreement upon delivery of written notice to the affected party.
 - 7.3 **Venue.** The parties agree that any dispute under the Agreement shall be brought in the applicable state or federal court located in the county in which the Originating Branch is located and the parties waive any right to a jury trial.
 - 7.4 **Construction and Captions.** The parties acknowledge that each has reviewed the Agreement and that the normal rules of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of the Agreement or any exhibits or amendments hereto; and that section headings appearing in the Agreement are for convenience of reference only and they are not intended, to any extent or for any purpose, to limit or define the text of any section or any subsection hereof. In the event any part of the Agreement is found to be ambiguous, such ambiguity shall not be construed against any party.
 - 7.5 **Entire Agreement.** The Agreement constitutes the sole and entire agreement between the parties and supersedes all prior and contemporaneous statements, promises, understandings or agreements, whether written or oral.
 - 7.6 **Amendments.** The Agreement may be amended, modified or altered at any time upon the approval of the Seller and Buyer; however, any such amendment must be in writing and signed by the Seller and Buyer in order for such amendment to be of any force and effect.
 - 7.7 **Partial Invalidity.** In the event that any provision of the Agreement is declared by any court of competent jurisdiction or any administrative judge to be void or otherwise invalid, all of the other terms, conditions and provisions of the Agreement shall remain in full force and effect to the same extent as if that part declared void or invalid had never been incorporated in the Agreement and in such form, the remainder of the Agreement shall continue to be binding upon the parties.
 - 7.8 **Counterparts.** The Agreement and any amendment thereto may be signed and executed in one or more counterparts, each of which shall be deemed an original and all of which together shall constitute one Agreement. Delivery of an executed counterpart of a signature page of the Agreement by facsimile or email shall be effective as delivery of an originally executed counterpart of the Agreement.
 - 7.9 **Authority.** Each person(s) executing the Agreement as an agent or in a representative capacity warrants that he or she is duly authorized to do so.

NO WARRANTY. SELLER MAKES NO WARRANTIES OR REPRESENTATIONS EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MARKETABILITY OR FITNESS FOR PARTICULAR PURPOSE, ALL OF WHICH ARE SPECIFICALLY HEREBY DISCLAIMED. To the extent allowed by law and those agreements, Seller transfers and assigns to Buyer the Equipment manufacturer's warranties, if any such warranty is provided by the Equipment manufacturer. In no event shall Seller be liable to Buyer for any incidental, consequential, special, exemplary, and/or punitive damages, including without limitations, loss of revenue or profit.



INVOICE INFORMATION

Sold to:

Name _____

Address _____

Contact _____

Phone # _____

Email Address: _____

Ship to:

Name _____

Address _____

Contact _____

Phone # _____

Email Address _____

PLEASE SELECT TYPE OF BUSINESS

Environmental <input type="checkbox"/>	Petro Chemical <input type="checkbox"/>	Gas & Oil <input type="checkbox"/>	Sewer & Water <input type="checkbox"/>
Industrial Plant <input type="checkbox"/>	Utility <input type="checkbox"/>	Municipal <input type="checkbox"/>	Other <input type="checkbox"/>

Customer Signature: _____



777 Doheny Drive
Northville, MI 48167

t 248-349-0904
p 248-349-2774

TITLE INFORMATION FORM

Must be typed. Please ensure accurate information provided with submission of this document. Any re-issuance of title resulting from inaccurate data may be subject to a \$250.00 processing fee.

Title Assigned to: **Name** _____
(Name and information for purchaser of the unit)

Address _____

Contact _____

Phone # _____

Email Address _____

County: _____ Fed ID# _____

Title Mailed to: **Name** _____
(Must be Physical Address)

Address _____
(Company or business that will be registering the unit)

Contact _____

Phone # _____

Email Address _____

Lienholder: **Name** _____
(If no lienholder exists, 'Not Applicable' must be notated in Name field)

Address _____

Contact _____

Phone # _____

Email Address _____

Customer Signature: _____

Vector Truck Q/A from Dec 2020 Budget Discussion

Q1. Is the \$425,000 the complete price for the truck to go into service or will we had to purchase additional equipment to have it ready for use at a greater price than the \$425,000.00?

A1. \$425,000 is estimated budget for a combined sewer vector, hydro excavator, and sewer jetter unit ready to go into service.

A1. The Township is currently utilizing a trailer mounted vector unit and a separate trailer mounted jetter unit. These units have limited hydro excavation capabilities.

Q2. How often is the current Trailer Vac used?

- **A2.** The current trailer vector and jetter are used 18 – 25 hours per week for regular maintenance activities in sewer collection system, which include the following:
 - Cleaning of sanitary sewer mains
 - 6" 2,201 feet
 - 8" 153,938 feet
 - 10" 13,005 feet
 - 12" 12,757 feet
 - 15" 13,948 feet
 - 16" 419 feet
 - 18" 1,881 feet
 - 24" 5,087 feet
 - Cleaning of 958 sanitary sewer manholes and flow channels
 - Cleaning of 19 sanitary sewer pump station wet wells/mat removal
- **A2.** Current trailer vector and jetter are used an average of 10 -12 hours per month for after-hours/weekends emergencies (in the last two weeks the vector/jetter was used six hours to clean sanitary sewer in Country Squire Estates on a Saturday in response to customer emergency call and pump the wet well/downstream manhole at a pump station on Saturday in response to wet well alarm)
- **A2.** Current trailer vector and jetter are used at the WWTP for cleaning and maintenance of onsite tanks, on-site sanitary sewer main, and on-site manholes
 - Oxidation Ditch 4
 - Clarifier 3
 - Screw Pump trough 3
 - On-site sewer main
 - 6" 22 feet
 - 8" 1,350 feet
 - 10" 394 feet
 - 16" 419 feet

- 18" 143 feet
 - 30" 243 feet
- **A2.** Other uses
 - Hydro excavation in areas that normal excavation is difficult due to high volume of utilities, high pressure gas mains, and high voltage underground electric lines.
- **A2.** Employee safety – used to remove water and mud in excavated areas during emergency repairs of water and sewer main breaks.

Q3. How much will it cost to insure this truck per year?

A3. Estimated annual premium \$6,500

Q4. Has anyone in the Administration checked on how much it would cost us a year on average to rent one?

Vendor	Hour	Rate/Day	Rate/Week	Rate/Month	Estimated Yearly Cost
City of Mt. Pleasant*	268.23 reg hours & 305.66 after hours	NA	NA	NA	277,000.0
Doheny Sales	NA	1,400.00	4,200.00	12,500.00	150,000.0
Isabella Corporation*	265.00	NA	NA	NA	269,000.0
Ranck Electric*	TBD				

*at least one vendor staff required to operate equipment

*subject to availability of truck and/or staff

A4. Cost to rent varies and with the exception of Doheny Sales rental required to include vendor personnel to operate equipment. Local sources are subject to availability of equipment and staff to operate equipment. Township staff will be required to provide personnel to complete required work in addition to vendor supplied equipment operator.

Q5. Is this a WANT or a NEED?

- **A5.** A sewer vector and jetter is an essential piece of equipment for the operation and maintenance of a sanitary sewer system. This equipment is used on a weekly basis to maintain the sanitary sewer mains, sanitary sewer manholes, and pump stations located in the Township.
- **A5.** The equipment is especially essential during emergency situations associated with the sanitary sewer collection system, waste water treatment plant, water distribution system, and during precipitation events.

Q6. What would it take to bring current truck up to date?

A6. +/- \$50,000 to rebuild pumps/motors/components on current trailer mounted vector – the capacity of the unit (s) will continue to be an issue

Existing sewer vector equipment capacity: 1,000 gallons/4.95-yard tank

Existing sewer jetter equipment capacity: 2,000 psi

Proposed combo sewer vector/jetter: 1,817 gallon/9.1-yard tank/3000 psi

Q7 Interested in knowing more about the plans for the proposed vac truck and how it makes the township provide a better service to its businesses and residents.

- **A7.** The current sewer vector and sewer jetter were purchased in the mid – late 1990’s. Since then, the size of the township’s sewer and water systems have doubled in size. The number and depth of sewer mains, manholes, and pump station wet wells have increased. The availability of a properly sized vector/jetter truck enables the Township Public Services Department to better respond to customers needs and emergencies. The proposed vector truck will provide additional capacity, utilize less labor, increase public and;

Q8. What is annual estimated maintenance expense for new truck

- **A8.** \$2,500 – annual general maintenance completed by dealership
- **A8.** \$1,200 – annual general maintenance completed by township staff

Q9. Assume when the truck goes on a call, two people will be assigned. Impact on other operations v. trailer vac?

- **A9.** Utility Staff is often required to work on the existing trailer vector prior to or after use. The purchase of a new vector truck will eliminate time spent maintaining the existing trailer vac.
- **A9.** Two employees are required to operate the township’s existing trailer mounted sewer vector and two additional employees are required to operate the trailer mounted sewer jetter. In addition, two township vehicles are required to transport the two units to sites throughout the township.
- **A9.** Proposed combination vector truck/sewer jetter will require two employees for operation.

Q10. Do we have a facility with high enough door’s to store this truck?

- **A10.** Yes

Q11. Do we have employee’s that have CDL drivers licenses?

- **A11.** Yes