

CHARTER TOWNSHIP OF VAN BUREN BOARD OF TRUSTEES
DECEMBER 1, 2020 BOARD MEETING 6:00 P.M.
TENTATIVE REVISED AGENDA
REMOTE MEETING

To mitigate the spread of COVID-19, protect the public health, and provide essential protections to Van Buren Township residents; this Van Buren Township's Board of Trustees meeting will be conducted virtually in compliance with State of Michigan Governor's Executive Orders regarding remote public meetings. To participate in the meeting electronically, the public may follow the instructions below:

Please click the link below to join the webinar:

<https://zoom.us/j/91923486719>

Webinar ID: 919 2348 6719

Or iPhone one-tap :

US: +13126266799,

International numbers available: <https://zoom.us/u/aesDJFZ5Pm>

For more information, see the "How to Join a Zoom Meeting" document on Van Buren Township's website:
https://vanburen-mi.org/wp-content/uploads/2020/05/How-to-join-a-Zoom-Meeting_v5.pdf

CALL TO ORDER:

PLEDGE OF ALLEGIANCE:

ROLL CALL:

Supervisor McNamara _____ Treasurer Budd _____ Clerk Wright _____
Trustee Frazier _____ Trustee Martin _____ Trustee Miller _____ Trustee Boynton _____

EXECUTIVE SUMMARY OF THE AGENDA:

ADOPTION OF AGENDA:

ADOPTION OF CONSENT AGENDA:

1. Board Meeting Minutes of November 17, 2020.
2. Prepaid List of November 19, 2020.
3. Voucher List of December 1, 2020.
4. Approval of the re-appointment of Amos Grissett and John Hasse to the Board of Zoning Appeals with terms to expire December 1, 2023 and approval of the re-appointment of Aaron Sellers to the Board of Zoning Appeals with a term to expire September 1, 2023.

PUBLIC HEARING:

CORRESPONDENCE/ANNOUNCEMENTS/ PRESENTATIONS:

PUBLIC COMMENT (Unfinished and New Business):

UNFINISHED BUSINESS:

NEW BUSINESS:

1. Discussion on, and to consider approval of the second (final) reading of Ordinance 11-17-20 (1) to limit medical marijuana caregiver activities authorized under Michigan Initiated Law 1 of 2008. The amendments will be to Section 2.102-Definitions, specific terms and Article 7-general provisions.
2. Discussion on, and to consider approval of a special land use request by Jiffy Lube International Inc., on behalf of owner Meijer Inc., to construct a Minor Vehicle Service use along with related site improvements.

3. Discussion on, and to consider approval of ETNA Supply Inc. for the AMI Meter System Replacement Project in the not to exceed amount of \$1,968,115.00.
4. Discussion on, and to consider approval of the purchase of Optional Meter Project Items for the AMI Meter System Replacement Project from ETNA Supply Inc. in the amount of \$135,075.00.
5. Discussion on, and to consider approval of a lease agreement for FFC license with Spectrum.
6. Discussion on, and to consider approval of an amendment to the 2020 amended and 2021 approved Cemetery Budget that would transfer \$25,000 from the 2020 Cemetery Capital (101-276-970-000) to the 2021 Cemetery Capital (101-276-970-000).
7. Discussion on, and to consider approval of the purchase of a 2021 Ford Explorer from Atchinson Ford in the amount of \$28,832.00 to be utilized as a fleet vehicle assigned to the Supervisors Office.
8. Discussion on, and to consider approval of the MERS Defined Benefit Addendum.
9. Discussion on, and to consider approval of Resolution 2020-26 Annual Exemption (Opt Out).
10. Discussion on, and to consider approval of amendments to the 2020 amended budgets line item 101-101-955-000 (Covid-19 Expenses) in the amount of \$120,000 with necessary transfer from fund balance and line item 101-101-995-0001 (Covid-19 Grand) to \$58,274.
11. Discussion on, and to consider approval of the Personal Service Agreement between David C. McNally II and the Township and authorize the Supervisor and Clerk to execute the agreement.
12. Discussion on, and to consider approval of the Memorandum of Understanding between the Western Wayne Mobile Field Force Consortium and Van Buren Township and authorize the Supervisor to execute the agreement.

REPORTS:

PUBLIC COMMENT NON-AGENDA ITEMS :

BOARD COMMENT NON-AGENDA ITEMS:

ADJOURNMENT:

**CHARTER TOWNSHIP OF VAN BUREN
BOARD OF TRUSTEES MEETING MINUTES
NOVEMBER 17, 2020 ELECTRONICALLY VIA ZOOM**

Supervisor McNamara called the meeting to order electronically via Zoom meeting ID 954 2709 9545 at 6:00 p.m. Present: Supervisor McNamara, Treasurer Budd, Clerk Wright, Trustee Frazier, Trustee Martin, Trustee Miller. Absent/Excused: Trustee White. Others participating, facilitating and monitoring the meeting: Secretary Montgomery, DDA Director Ireland, Planning and Economic Development Director Power, Water and Sewer Director Taylor, Master Plan Consultant Cook, Fire Marshall McNally, Public Services Director Best, Attorney Mannarino, Communication Specialists Albrecht and Nichols and a maximum audience of Twenty-Nine (29).

EXECUTIVE SUMMARY OF THE AGENDA: Supervisor McNamara outlined the items appearing on the agenda.

ADOPTION OF THE AGENDA: Miller moved; Frazier seconded to approve the revised agenda. Roll Call Vote. Yeas: McNamara, Budd, Wright, Frazier, Martin, Miller. Motion Carried.

ADOPTION OF CONSENT AGENDA: Miller moved, Martin seconded to approve the Consent Agenda: (Board Meeting Minutes of October 20, 2020; Prepaid List of October 22, 2020, Prepaid List of October 29, 2020; Prepaid List of November 3, 2020 (Election Worker Pay-Monday); Prepaid List of November 3, 2020 (Election Worker Pay Tuesday); Prepaid List of November 5, 2020; Prepaid List of November 12, 2020; Voucher List of November 3, 2020; Voucher List of November 17, 2020 ; Approval of the appointment of Brian Cullin to the Planning Commission with a term to expire October 1, 2021; Approval of the re-appointments of Kevin Boyer, Juanita Jenson, Harry Roesch and Penny Young (Alternate) to the Board of Review with terms to expire December 31, 2022 and approval of the corrected 2021 Holiday Schedule). Roll Call Vote. Yeas: McNamara, Budd, Wright, Frazier, Martin, Miller. Absent/Excused: White. Motion Carried.

PUBLIC HEARING:

CORRESPONDENCE/ANNOUNCEMENTS/PRESENTATIONS: Announced the Michigan Downtown Association has recognized Harris Park as the 2020 Best Placemaking Project in the state, the next Forgotten Harvest food distribution will occur November 24, 2020 from 1-4 p.m. (or while supplies last) at the Township Hall, 46425 Tyler Rd., the Red Cross blood drive was another record tying success with 36 units collected providing an opportunity to assist over 100 people, thank you to the voters who participated in the November 3rd election, the Clerk's Office experienced a record breaking 70.7% turnout noting an impressive turnout of 69.3% of youth between 18-21 years old, thank you to the Clerk's Office Staff, DPW Staff, H.R. Director Sumpter, the Van Buren Public, assured voters of the integrity of the election despite social and news media claims, thanked Bob and Marie Krouse for placing flags on Veteran graves, the Township Administrative Offices will be closed Thursday November 26th and Friday November 27th in observance of Thanksgiving. the Township Covid-19 response plan will modify the Township employees to adjusted work schedules of both in-office and at-home work Monday through Friday, the Township will remain open to the public Monday through Friday from 10 a.m. until 3 p.m. the plan is effective November 18th, 2020 until further notice.

PUBLIC COMMENT (Unfinished and New Business): None

UNFINISHED BUSINESS: None.

NEW BUSINESS:

Frazier moved, Budd seconded to approve the first reading of Ordinance 11-17-20 (1) to limit medical marijuana caregiver activities authorized under Michigan Initiated Law 1 of 2008. The amendments will be to Section 2.102-Definitions, specific

terms and Article 7-general provisions. Roll Call Vote: Yeas: McNamara, Budd, Wright, Frazier, Martin, Miller. Absent/Excused: White. Motion Carried.

Budd moved, Miller seconded to approve of Resolution 2020-22 to adopt the Van Buren Township Master Plan per the requirements of the Michigan Planning Enabling Act (PA 33 of 2008). Roll Call Vote: Yeas: McNamara, Budd, Wright, Frazier, Martin, Miller. Absent/Excused: White. Motion Carried.

Miller moved, Wright seconded to approve Resolution 2020-25 the Wayne County Hazard Mitigation Plan. Roll Call Vote: Yeas: McNamara, Budd, Wright, Frazier, Martin, Miller. Absent/Excused: White. Motion Carried.

REPORTS: None.

PUBLIC COMMENT NON-AGENDA ITEMS: None.

BOARD COMMENT NON-AGENDA ITEMS: Board members thanked Trustee White for his years of service to the community, congratulated re-elected Board members, welcomed newly elected Trustee Donald Boynton Jr., thanked the Clerk's office and everyone who assisted in the General Election and to all the Veterans.

ADJOURNMENT: Miller moved, Frazier seconded to adjourn at 7:20 p.m. Motion Carried.

Leon Wright, Township Clerk

Date: _____.

Kevin McNamara, Supervisor

Date: _____.

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INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
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11.19.20 PREPAID

Page: 1/10

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							

Vendor ATT - AT&T:

734326298211								
98656	AT&T	11/07/2020	11/19/2020	234.42	234.42	Open	N	
	11.7-12.6 326-2982	KTYLER					11/19/2020	
	101-265-850-000	11.7-12.6 326-2982		234.42				
		Total for vendor ATT - AT&T:		234.42	234.42			

Vendor ATT2 - AT&T:

5940818505								
98655	AT&T	11/05/2020	11/19/2020	2,277.45	2,277.45	Open	N	
	NOV 171.799.7112	KTYLER					11/19/2020	
	101-265-850-000	NOV 171.799.7112		2,277.45				
		Total for vendor ATT2 - AT&T:		2,277.45	2,277.45			

Vendor ATT4 - AT&T MOBILITY:

287285038490								
98654	AT&T MOBILITY	11/06/2020	11/19/2020	47.61	47.61	Open	N	
	10.7-11.6 FD CELL PHONE SVCS	KTYLER					11/19/2020	
	101-336-850-000	10.7-11.6 FD CELL PHONE SVCS		47.61				
		Total for vendor ATT4 - AT&T MOBILITY:		47.61	47.61			

Vendor BLCANE - BLUE CARE NETWORK:

203110000135								
98626	BLUE CARE NETWORK	11/06/2020	11/19/2020	90,162.06	90,162.06	Open	N	
	DEC HLTH INSUR	KTYLER					11/19/2020	
	101-191-719-000	DEC HLTH INSUR		1,646.21				
	101-215-719-000	DEC HLTH INSUR		1,646.21				
	101-228-719-000	DEC HLTH INSUR		1,646.21				
	101-253-719-000	DEC HLTH INSUR		4,573.33				
	101-265-719-000	DEC HLTH INSUR		4,009.58				
	101-301-719-000	DEC HLTH INSUR		36,586.64				
	101-325-719-000	DEC HLTH INSUR		8,186.01				
	101-329-719-000	DEC HLTH INSUR		1,646.21				
	101-336-719-000	DEC HLTH INSUR		4,573.33				
	101-370-719-000	DEC HLTH INSUR		1,646.21				
	101-691-719-000	DEC HLTH INSUR		4,938.63				
	101-692-719-000	DEC HLTH INSUR		1,280.91				
	101-715-719-000	DEC HLTH INSUR		1,822.14				
	101-900-719-000	DEC HLTH INSUR		10,480.58				
	592-536-719-000	DEC HLTH INSUR		5,479.86				

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EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
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Page: 2/10

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
	Total for vendor BLCANE - BLUE CARE NETWORK:			90,162.06	90,162.06			

Vendor BCBS - BLUE CROSS BLUE SHIELD OF MI:

007002712							N	
98657	BLUE CROSS BLUE SHIELD OF MI	11/08/2020	11/19/2020	103,750.60	103,750.60	Open	11/19/2020	
	BCBS HLTH INSUR	KTYLER						
	101-101-719-000	BCBS HLTH INSUR		1,780.36				
	101-171-719-000	BCBS HLTH INSUR		3,019.85				
	101-215-719-000	BCBS HLTH INSUR		2,270.53				
	101-228-719-000	BCBS HLTH INSUR		1,498.64				
	101-247-719-000	BCBS HLTH INSUR		4,050.89				
	101-253-719-000	BCBS HLTH INSUR		749.32				
	101-265-719-000	BCBS HLTH INSUR		4,050.89				
	101-301-719-000	BCBS HLTH INSUR		32,024.00				
	101-325-719-000	BCBS HLTH INSUR		3,769.17				
	101-329-719-000	BCBS HLTH INSUR		2,270.53				
	101-336-719-000	BCBS HLTH INSUR		11,539.67				
	101-370-719-000	BCBS HLTH INSUR		5,549.53				
	101-692-719-000	BCBS HLTH INSUR		1,780.36				
	101-900-719-000	BCBS HLTH INSUR		11,512.37				
	247-000-719-000	BCBS HLTH INSUR		3,019.85				
	250-000-719-000	BCBS HLTH INSUR		749.32				
	592-536-719-000	BCBS HLTH INSUR		8,101.78				
	592-536-719-001	BCBS HLTH INSUR		6,013.54				
	Total for vendor BCBS - BLUE CROSS BLUE SHIELD OF MI:			103,750.60	103,750.60			

Vendor VISA - CHASE CARD SVCS:

RANKIN							N	
98661	CHASE CARD SVCS	11/08/2020	11/19/2020	688.92	688.92	Open	11/19/2020	
	OCT STMT	KTYLER						
	101-228-956-000	AMAZON SURFACE PRO CABLES		54.94				
	101-101-956-000	AMAZON BOARD IPAD CHARGERS		128.74				
	101-101-956-000	AMAZON (4) SPARE CHARGERS		70.27				
	101-228-817-000	AMAZON (3) OFF SITE DATA STORAGE DRIV		434.97				
L.WRIGHT							N	
98662*	CHASE CARD SVCS	11/08/2020	11/19/2020	389.83	389.83	Open	11/19/2020	
	OCT STMT	KTYLER						
	101-248-727-000	AMAZON CREDIT		(29.99)				
	101-248-727-000	AMAZON MONTGOMERY SURFACE PRO BAG		29.99				
	101-191-727-000	AMAZON L.WRIGHT SURFACE PRO BACKPACK		98.95				
	101-191-727-000	AMAZON BEAUDRY SURFACE PRO BACKPACK		98.95				
	101-191-727-000	AMAZON ROLLER KIT FOR ELEC SCAN		84.95				

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INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
 EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
 UNJOURNALIZED
 OPEN
 11.19.20 PREPAID

Page: 3/10

Inv Num Inv Ref#	Vendor Description	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
	GL Distribution							
	101-248-728-000	USPS OVERNIGHT ELEC BALLOT		26.35				
	101-191-727-000	11.3 ELECTION STAFF DINNERS		80.63				
DALLOS 98663	CHASE CARD SVCS	11/08/2020	11/19/2020	74.18	74.18	Open	N 11/19/2020	
	OCT STMT	KTYLER						
	250-000-956-000	MISSING RECEIPT		37.09				
	250-000-956-000	MISSING RECEIPT		37.09				
MCNAMARA 98664	CHASE CARD SVCS	11/08/2020	11/19/2020	115.26	115.26	Open	N 11/19/2020	
	OCT STMT	KTYLER						
	101-247-727-000	AMAZON KEYBOARD STAND ASSESSING		16.79				
	101-171-956-000	AMAZON MAGAZINE HOLDER SUPERVISOR		16.90				
	101-247-727-000	WAYFAIR COAT RACK ASSESSING		34.60				
	101-171-956-000	WAYFAIR DISPLAY EASELS SUPERVISOR		43.98				
	101-715-956-000	CABLE OCT EXTRA MEDIA STORAGE		2.99				
BROW 98665	CHASE CARD SVCS	11/08/2020	11/19/2020	767.47	767.47	Open	N 11/19/2020	
	OCT STMT	KTYLER						
	101-336-861-000	10.10 FIRE DEPT BOXED LUNCHES BURN TR		367.47				
	101-336-741-000	MAFC (40) TEE SHIRTS		400.00				
LAURAIN 98666	CHASE CARD SVCS	11/08/2020	11/19/2020	3,247.17	3,247.17	Open	N 11/19/2020	
	OCT STMT	KTYLER						
	101-301-861-000	BIDWELL NAT.'L CHILD SAFETY CERTIFY		55.00				
	101-301-741-000	LAURAIN DUTY BELT		110.24				
	101-301-741-000	5.11 DUTY JACKETS FOR DB/KEELE		1,106.59				
	101-301-741-000	5.11 DUTY JACKETS FOR DB/KEELE		276.65				
	101-301-956-000	AMAZON SIGNATURE PAD FOR SOR		249.95				
	101-301-745-000	AMAZON SIGHTS-SWAT DUTY GUN		280.12				
	101-301-745-000	BULLET PROOF PANELS FOR SWAT VESTS		527.88				
	101-301-741-000	KEELE AIRPODS FOR MTGS/TRNG		99.00				
	101-301-745-000	AMAZON SWAT GEAR		199.98				
	101-301-727-000	AMAZON OFFICE STAFF CLOTHING		241.09				
	101-301-743-000	AMAZON GLADE AIR/SIGN HOLDER-POSTER S		100.67				
BEST 98667	CHASE CARD SVCS	11/08/2020	11/19/2020	162.46	162.46	Open	N 11/19/2020	
	OCT STMT	KTYLER						
	101-101-955-000	ZOOM COVID-19 VIRTUAL BLDG DEPT		15.89				
	101-370-956-000	RENAUD OCT ADOBE PHOTO SCRIPT		29.99				
	101-101-955-000	ZOOM COVID-19 VIRTUAL PS MTGS		116.58				

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INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
UNJOURNALIZED
OPEN

Page: 4/10

11.19.20 PREPAID

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
MCINALLY 98668	CHASE CARD SVCS OCT STMT 101-336-861-000 101-336-741-000 101-336-931-000	11/08/2020 KTYLER	11/19/2020	389.87 132.10 159.89 97.88	389.87	Open	N 11/19/2020	
SELMAN 98669	CHASE CARD SVCS OCT STMT 101-171-956-000	11/08/2020 KTYLER	11/19/2020	41.95 41.95	41.95	Open	N 11/19/2020	
	WALGREENS (12) COMMUNITY PHOTO PRINTS			41.95				
	Total for vendor VISA - CHASE CARD SVCS:			5,877.11	5,877.11			

Vendor ROMCIT - CITY OF ROMULUS:

020185 98630	CITY OF ROMULUS OCT 39605 WABASH 592-536-920-000	10/31/2020 KTYLER	11/19/2020	49.92 49.92	49.92	Open	N 11/19/2020	
	Total for vendor ROMCIT - CITY OF ROMULUS:			49.92	49.92			

Vendor COMCAST - COMCAST:

249435 98631	COMCAST 11.9-12.8 CAMARA CONNECTION 101-336-920-000	10/26/2020 KTYLER	11/19/2020	144.85 144.85	144.85	Open	N 11/19/2020	
79909 98632	COMCAST 11.8-12.7 MUSEUM INTERNET 250-000-920-000	11/04/2020 KTYLER	11/19/2020	88.40 88.40	88.40	Open	N 11/19/2020	
10623 98633	COMCAST 11.19-12.18 CABLE BOX/TV 101-336-920-000	11/06/2020 KTYLER	11/19/2020	80.11 80.11	80.11	Open	N 11/19/2020	
	Total for vendor COMCAST - COMCAST:			313.36	313.36			

Vendor DEANAT - DEARBORN NATIONAL:

EAB100157-1 98658	DEARBORN NATIONAL OCT S&A/LIFE INSURANCE 101-101-719-000	09/08/2020 KTYLER	11/19/2020	8,628.46 13.20	8,628.46	Open	N 11/19/2020	
	OCT LIFE INSURANCE							

11/19/2020 01:16 PM
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EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
UNJOURNALIZED
OPEN
11.19.20 PREPAID

Page: 5/10

Inv Num Inv Ref#	Vendor Description	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
	GL Distribution							
	101-171-719-000	OCT S&A/LIFE INSURANCE		326.12				
	101-191-719-000	OCT S&A/LIFE INSURANCE		57.45				
	101-215-719-000	OCT S&A/LIFE INSURANCE		325.72				
	101-228-719-000	OCT S&A/LIFE INSURANCE		248.90				
	101-247-719-000	OCT S&A/LIFE INSURANCE		151.60				
	101-253-719-000	OCT S&A/LIFE INSURANCE		316.80				
	101-265-719-000	OCT S&A/LIFE INSURANCE		477.56				
	101-301-719-000	OCT S&A/LIFE INSURANCE		3,456.04				
	101-325-719-000	OCT S&A/LIFE INSURANCE		529.41				
	101-329-719-000	OCT S&A/LIFE INSURANCE		139.32				
	101-336-719-000	OCT S&A/LIFE INSURANCE		494.59				
	101-370-719-000	OCT S&A/LIFE INSURANCE		452.56				
	101-691-719-000	OCT S&A/LIFE INSURANCE		219.62				
	101-692-719-000	OCT S&A/LIFE INSURANCE		130.96				
	101-715-719-000	OCT S&A/LIFE INSURANCE		146.56				
	101-900-719-000	OCT LIFE INSURANCE		14.30				
	247-000-719-000	OCT S&A/LIFE INSURANCE		164.53				
	250-000-719-000	OCT S&A/LIFE INSURANCE		98.60				
	592-536-719-000	OCT S&A/LIFE INSURANCE		864.62				
EAB100157-1 98659	DEARBORN NATIONAL NOV S&A/LIFE INSURANCE	10/08/2020 KTYLER	11/19/2020	8,680.94	8,680.94	Open	N 11/19/2020	
	101-101-719-000	NOV LIFE INSURANCE		13.20				
	101-171-719-000	NOV S&A/LIFE INSURANCE		326.12				
	101-191-719-000	NOV S&A/LIFE INSURANCE		57.45				
	101-215-719-000	NOV S&A/LIFE INSURANCE		325.72				
	101-228-719-000	NOV S&A/LIFE INSURANCE		248.90				
	101-247-719-000	NOV S&A/LIFE INSURANCE		151.60				
	101-253-719-000	NOV S&A/LIFE INSURANCE		316.80				
	101-265-719-000	NOV S&A/LIFE INSURANCE		477.56				
	101-301-719-000	NOV S&A/LIFE INSURANCE		3,456.04				
	101-325-719-000	NOV S&A/LIFE INSURANCE		529.41				
	101-329-719-000	NOV S&A/LIFE INSURANCE		139.32				
	101-336-719-000	NOV S&A/LIFE INSURANCE		494.59				
	101-370-719-000	NOV S&A/LIFE INSURANCE		452.56				
	101-691-719-000	NOV S&A/LIFE INSURANCE		219.62				
	101-692-719-000	NOV S&A/LIFE INSURANCE		130.96				
	101-715-719-000	NOV S&A/LIFE INSURANCE		146.56				
	101-900-719-000	NOV LIFE INSURANCE		14.30				
	247-000-719-000	NOV S&A/LIFE INSURANCE		164.53				
	250-000-719-000	NOV S&A/LIFE INSURANCE		98.60				
	592-536-719-000	NOV S&A/LIFE INSURANCE		917.10				
Total for vendor DEANAT - DEARBORN NATIONAL:				17,309.40	17,309.40			

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EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
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Page: 6/10

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
Vendor DTE - DTE ENERGY:								
920018573112 98634	DTE ENERGY OCT 50335 EDISON 101-718-920-000	11/02/2020 KTYLER OCT 50335 EDISON	11/19/2020	50.96 50.96	50.96	Open	N 11/19/2020	
910015587074 98635	DTE ENERGY OCT 49475 EDISON 101-718-920-000	11/02/2020 KTYLER OCT 49475 EDISON	11/19/2020	44.46 44.46	44.46	Open	N 11/19/2020	
910016815425 98636	DTE ENERGY OCT 2457 RAWSONVILLE 592-536-920-000	11/02/2020 KTYLER OCT 2457 RAWSONVILLE	11/19/2020	191.15 191.15	191.15	Open	N 11/19/2020	
910022836431 98637	DTE ENERGY OCT 46270 AYRES 101-718-920-000	11/02/2020 KTYLER OCT 46270 AYRES	11/19/2020	228.93 228.93	228.93	Open	N 11/19/2020	
910013925425 98638	DTE ENERGY OCT 50655 EDISON 101-718-920-000	11/02/2020 KTYLER OCT 50655 EDISON	11/19/2020	15.70 15.70	15.70	Open	N 11/19/2020	
910013925581 98639	DTE ENERGY OCT 50901 S I-94 SVCS DR 101-718-920-000 101-718-920-000	11/02/2020 KTYLER OCT 50901 S I-94 SVCS DR OCT 50901 S I-94 SVCS DR	11/19/2020	146.72 51.72 95.00	146.72	Open	N 11/19/2020	
910016828014 98640	DTE ENERGY OCT 50075 EDISON 101-718-920-000	11/02/2020 KTYLER OCT 50075 EDISON	11/19/2020	13.18 13.18	13.18	Open	N 11/19/2020	
920007469058 98641	DTE ENERGY 10.2-11.2 45385 ECORSE 247-000-920-000	11/03/2020 KTYLER 10.2-11.2 45385 ECORSE	11/19/2020	14.95 14.95	14.95	Open	N 11/19/2020	
910016828634 98642	DTE ENERGY 10.2-11.2 13085 VENTURA 592-536-920-000 592-536-920-000	11/03/2020 KTYLER 10.2-11.2 13085 VENTURA 10.2-11.2 13085 VENTURA	11/19/2020	149.53 32.65 116.88	149.53	Open	N 11/19/2020	

11/19/2020 01:16 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
UNJOURNALIZED
OPEN
11.19.20 PREPAID

Page: 7/10

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
910016815318								
98643	DTE ENERGY	11/05/2020	11/19/2020	179.33	179.33	Open	N	
	10.6-11.4 39600 TYLER	KTYLER					11/19/2020	
	101-265-920-000	10.6-11.4 39600 TYLER		15.45				
	101-265-920-000	10.6-11.4 39600 TYLER		163.88				
920000828565								
98644	DTE ENERGY	11/05/2020	11/19/2020	38.19	38.19	Open	N	
	10.2-11.2 10000 BECK	KTYLER					11/19/2020	
	101-265-920-000	10.2-11.2 10000 BECK		38.19				
910013925011								
98645	DTE ENERGY	11/05/2020	11/19/2020	107.58	107.58	Open	N	
	10.6-11.4 39600 TYLER	KTYLER					11/19/2020	
	101-265-920-000	10.6-11.4 39600 TYLER		107.58				
910013925714								
98646	DTE ENERGY	11/05/2020	11/19/2020	1,495.55	1,495.55	Open	N	
	10.6-11.4 7981 BVL	KTYLER					11/19/2020	
	101-336-920-000	10.6-11.4 7981 BVL		343.45				
	101-336-920-000	10.6-11.4 7981 BVL		1,152.10				
910013926803								
98647	DTE ENERGY	11/05/2020	11/19/2020	454.08	454.08	Open	N	
	10.6-11.4 9260 HAGGERTY	KTYLER					11/19/2020	
	592-536-920-000	10.6-11.4 9260 HAGGERTY		454.08				
910013926647								
98648	DTE ENERGY	11/09/2020	11/19/2020	61.72	61.72	Open	N	
	10.9-11.6 11940 HANNAN	KTYLER					11/19/2020	
	592-536-920-000	10.9-11.6 11940 HANNAN		61.72				
910015586795								
98649	DTE ENERGY	11/10/2020	11/19/2020	190.98	190.98	Open	N	
	10.10-11.9 45581 ECORSE	KTYLER					11/19/2020	
	101-265-920-000	10.10-11.9 45581 ECORSE		190.98				
910016815763								
98650	DTE ENERGY	11/10/2020	11/19/2020	62.85	62.85	Open	N	
	10.10-11.9 45581 ECORSE	KTYLER					11/19/2020	
	101-265-920-000	10.10-11.9 45581 ECORSE		62.85				
910013925979								
98651	DTE ENERGY	11/12/2020	11/19/2020	487.24	487.24	Open	N	
	10.14-11.11 7563 HAGGERTY	KTYLER					11/19/2020	
	592-536-920-000	10.14-11.11 7563 HAGGERTY		34.61				
	592-536-920-000	10.14-11.11 7563 HAGGERTY		452.63				

11/19/2020 01:16 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
UNJOURNALIZED
OPEN
11.19.20 PREPAID

Page: 8/10

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
910022836811 98652	DTE ENERGY 10.13-11.10 48791 DENTON 592-536-920-000	11/11/2020 KTYLER	11/19/2020	41.78 41.78	41.78	Open	N 11/19/2020	
910016815052 98653	DTE ENERGY 10.13-11.10 48791 DENTON 592-536-920-000	11/11/2020 KTYLER	11/19/2020	172.64 172.64	172.64	Open	N 11/19/2020	
Total for vendor DTE - DTE ENERGY:				4,147.52	4,147.52			

Vendor DEEDST - DTE ENERGY COMPANY:

910040640427 98628	DTE ENERGY COMPANY OCT STREETLIGHTING 101-450-926-000 247-000-920-000	10/31/2020 KTYLER	11/19/2020	21,314.59 18,655.62 2,658.97	21,314.59	Open	N 11/19/2020	
Total for vendor DEEDST - DTE ENERGY COMPANY:				21,314.59	21,314.59			

Vendor RICOH - RICOH USA INC:

5060733697 98629	RICOH USA INC 8.1-10.31 COPIER MAINT FS 102 101-336-933-000 101-336-933-000	11/01/2020 KTYLER	11/19/2020	24.89 10.96 13.93	24.89	Open	N 11/19/2020	
Total for vendor RICOH - RICOH USA INC:				24.89	24.89			

Vendor VERWIR - VERIZON WIRELESS:

9866681159 98672	VERIZON WIRELESS 10.11-11.10 CELL PHONES 101-336-850-000 101-301-850-000	11/10/2020 KTYLER	11/19/2020	1,173.85 59.25 1,114.60	1,173.85	Open	N 11/19/2020	
Total for vendor VERWIR - VERIZON WIRELESS:				1,173.85	1,173.85			

Vendor VISEPL - VISION SERVICE PLAN:

810905535 98671	VISION SERVICE PLAN DEC VISION INSUR 101-101-719-000	11/18/2020 KTYLER	11/19/2020	2,652.88 49.79	2,652.88	Open	N 11/19/2020	
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11/19/2020 01:16 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
UNJOURNALIZED
OPEN
11.19.20 PREPAID

Page: 9/10

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
	101-171-719-000	JUNE VISION INSUR		64.54				
	101-191-719-000	JUNE VISION INSUR		26.43				
	101-215-719-000	JUNE VISION INSUR		105.72				
	101-228-719-000	JUNE VISION INSUR		49.79				
	101-247-719-000	JUNE VISION INSUR		52.86				
	101-253-719-000	JUNE VISION INSUR		90.97				
	101-265-719-000	JUNE VISION INSUR		99.58				
	101-301-719-000	JUNE VISION INSUR		1,036.31				
	101-325-719-000	JUNE VISION INSUR		216.98				
	101-329-719-000	JUNE VISION INSUR		52.86				
	101-336-719-000	JUNE VISION INSUR		223.12				
	101-370-719-000	JUNE VISION INSUR		129.08				
	101-691-719-000	JUNE VISION INSUR		79.29				
	101-692-719-000	JUNE VISION INSUR		52.86				
	101-715-719-000	JUNE VISION INSUR		38.11				
	247-000-719-000	JUNE VISION INSUR		38.11				
	250-000-719-000	JUNE VISION INSUR		11.68				
	592-536-719-000	JUNE VISION INSUR		234.80				
	Total for vendor VISEPL - VISION SERVICE PLAN:			2,652.88	2,652.88			
Vendor WADTRI - WADE TRIM :								
2016966-2								
98670	WADE TRIM	01/21/2020	11/19/2020	1,916.59	1,916.59	Open	N	
	REISSUE 12.27 BECK RD BYPASS VAL	KTYLER					11/19/2020	
	592-536-820-000	REISSUE 12.27 BECK RD BYPASS VALVE/AU		1,916.59				
	Total for vendor WADTRI - WADE TRIM :			1,916.59	1,916.59			
Vendor WALMAR - WALMART COMMUNITY/SYNCB:								
0108								
98627	WALMART COMMUNITY/SYNCB	11/03/2020	11/19/2020	11.56	11.56	Open	N	
	OCT STMT	KTYLER					11/19/2020	
	101-191-727-000	GLUESTICKS FOR BALLOTS		11.56				
	Total for vendor WALMAR - WALMART COMMUNITY/SYNCB:			11.56	11.56			
Vendor YCUA - YPSILANTI COMMUNITY UTIL AUTH:								
5.500.400005.01								
98660	YPSILANTI COMMUNITY UTIL AUTH	10/31/2020	11/19/2020	2,812.98	2,812.98	Open	N	
	OCT YCUA SEWAGE	KTYLER					11/19/2020	
	592-537-924-000	OCT YCUA SEWAGE		2,812.98				
	Total for vendor YCUA - YPSILANTI COMMUNITY UTIL AUTH:			2,812.98	2,812.98			

11/19/2020 01:16 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 11/19/2020 - 11/19/2020
UNJOURNALIZED
OPEN
11.19.20 PREPAID

Page: 10/10

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
# of Invoices:	47	# Due:	47	Totals:	254,076.79	254,076.79		
# of Credit Memos:	0	# Due:	0	Totals:	0.00	0.00		
Net of Invoices and Credit Memos:				254,076.79	254,076.79			
* 1 Net Invoices have Credits Totalling:				(29.99)				
--- TOTALS BY FUND ---								
101 - General Fund				218,945.74	218,945.74			
247 - DDA Fund				6,060.94	6,060.94			
250 - Museum Fund				1,120.78	1,120.78			
592 - Water/Sewer Fund				27,949.33	27,949.33			
--- TOTALS BY DEPT/ACTIVITY ---								
000 -				7,181.72	7,181.72			
101 - Township Board				2,188.03	2,188.03			
171 - Supervisor Department				3,839.46	3,839.46			
191 - Election Department				2,162.58	2,162.58			
215 - Clerk Department				4,673.90	4,673.90			
228 - IT Department				4,182.35	4,182.35			
247 - Assessing Department				4,458.34	4,458.34			
248 - General Office				26.35	26.35			
253 - Treasurer Department				6,047.22	6,047.22			
265 - Building & Grounds				12,205.97	12,205.97			
301 - Police Department				80,920.80	80,920.80			
325 - Dispatch				13,230.98	13,230.98			
329 - Ordinance Enforcement				4,248.24	4,248.24			
336 - Fire Department				20,334.90	20,334.90			
370 - Building/Planning Dept.				8,259.93	8,259.93			
450 - Public Services				18,655.62	18,655.62			
536 - Water Department				25,136.35	25,136.35			
537 - Sewer Department				2,812.98	2,812.98			
691 - Recreation Dept				5,457.16	5,457.16			
692 - Seniors Dept				3,376.05	3,376.05			
715 - Communications Dept				2,156.36	2,156.36			
718 - Park & Lake Dept				499.95	499.95			
900 - Insurance				22,021.55	22,021.55			

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
Vendor 911TRA - 911 TRAINING INSTITUTE:								
10282								
98673	911 TRAINING INSTITUTE	09/03/2020	12/01/2020	359.00	359.00	Open	N	
	WEISBECKER 9.16 SURVIVE & THRIVE KTYLER						12/01/2020	
	101-325-861-000 WEISBECKER 9.16 SURVIVE & THRIVE VIRT			359.00				
10327								
98674	911 TRAINING INSTITUTE	11/02/2020	12/01/2020	229.00	229.00	Open	N	
	REA 11.3 POWER OF PEER SUPP VIRT KTYLER						12/01/2020	
	101-325-861-000 REA 11.3 POWER OF PEER SUPP VIRTUAL			229.00				
	Total for vendor 911TRA - 911 TRAINING INSTITUTE:			588.00	588.00			
Vendor DELIEM - A DESIGN LINE EMBROIDERY:								
31032								
98676	A DESIGN LINE EMBROIDERY	10/30/2020	12/01/2020	1,273.14	1,273.14	Open	N	
	DISPATCH UNIFORMS KTYLER						12/01/2020	
	101-325-741-000 DISPATCH UNIFORMS			1,273.14				
	Total for vendor DELIEM - A DESIGN LINE EMBROIDERY:			1,273.14	1,273.14			
Vendor ABBDOO - ABBEY DOOR:								
8703								
98677	ABBEEY DOOR	10/27/2020	12/01/2020	314.00	314.00	Open	N	
	POLICE SALLEY PORT DOOR WEST KTYLER						12/01/2020	
	101-265-931-000 POLICE SALLEY PORT DOOR WEST			314.00				
8704								
98678	ABBEEY DOOR	10/27/2020	12/01/2020	595.00	595.00	Open	N	
	STATION 3 GARAGE DOOR KTYLER						12/01/2020	
	101-265-931-000 STATION 3 GARAGE DOOR			595.00				
	Total for vendor ABBDOO - ABBEY DOOR:			909.00	909.00			
Vendor SCHALE - ALEX SCHULZ:								
TRAVEL								
98789	ALEX SCHULZ	11/18/2020	12/01/2020	36.11	36.11	Open	N	
	11.10-12 TRAIN THE TRAINER MEALS KTYLER						12/01/2020	
	101-301-861-000 11.10-12 TRAIN THE TRAINER MEALS			36.11				
	Total for vendor SCHALE - ALEX SCHULZ:			36.11	36.11			
Vendor ALLBRO - ALLIE BROTHERS:								

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 2/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
81213 98679	ALLIE BROTHERS VELEVSKA UNIFORMS 101-301-741-000	10/29/2020 KTYLER	12/01/2020	109.98 109.98	109.98	Open	N 12/01/2020	
81258 98680	ALLIE BROTHERS MCINALLY UNIFORMS 101-336-741-000	10/30/2020 KTYLER	12/01/2020	129.99 129.99	129.99	Open	N 12/01/2020	
81387 98790	ALLIE BROTHERS J.WRIGHT UNIFORMS 101-301-741-000	11/11/2020 KTYLER	12/01/2020	481.92 481.92	481.92	Open	N 12/01/2020	
81369 98791	ALLIE BROTHERS UNIFORM SET FOR FULL TIME FIRE F 101-336-741-000	11/11/2020 KTYLER	12/01/2020	597.46 597.46	597.46	Open	N 12/01/2020	20-0323
Total for vendor ALLBRO - ALLIE BROTHERS:				1,319.35	1,319.35			
Vendor ALLALA - ALLSTAR ALARM LLC:								
295370 98770	ALLSTAR ALARM LLC 12.1-2.28.21 FIRE SYS INSP/ALARM 101-265-931-000	11/01/2020 KTYLER	12/01/2020	246.00 246.00	246.00	Open	N 12/01/2020	
Total for vendor ALLALA - ALLSTAR ALARM LLC:				246.00	246.00			
Vendor AMEINT - AMERICAN INTERIORS:								
31146 98766	AMERICAN INTERIORS PD FURNITURE -- INTERVIEW ROOM 101-265-970-000	11/10/2020 KTYLER	12/01/2020	1,552.11 1,552.11	1,552.11	Open	N 12/01/2020	20-0396
31144 98767	AMERICAN INTERIORS PD FURNITURE -- DETECTIVE COPY P 101-265-970-000	11/10/2020 KTYLER	12/01/2020	7,753.46 7,753.46	7,753.46	Open	N 12/01/2020	20-0397
31145 98768	AMERICAN INTERIORS PD FURNITURE -- DETECTIVE WORKST 101-265-970-000	11/10/2020 KTYLER	12/01/2020	15,902.71 15,902.71	15,902.71	Open	N 12/01/2020	20-0398

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 3/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
31143 98769	AMERICAN INTERIORS PD FURNITURE - DET. BAZZY OFFICE 101-265-970-000	11/10/2020 KTYLER	12/01/2020	5,402.42 5,402.42	5,402.42	Open	N 12/01/2020	20-0399
31142 98793	AMERICAN INTERIORS VBT HALLWAY BENCHES 101-265-970-000	11/10/2020 KTYLER	12/01/2020	3,779.46 3,779.46	3,779.46	Open	N 12/01/2020	20-0471
Total for vendor AMEINT - AMERICAN INTERIORS:				34,390.16	34,390.16			
Vendor APESOF - APEX SOFTWARE:								
311559 98765	APEX SOFTWARE APEX 7 SURFACE PRO STEVENSON/DOR 101-101-955-000 101-101-955-000	11/16/2020 KTYLER	12/01/2020	1,860.00 1,785.00 75.00	1,860.00	Open	N 12/01/2020	20-0466
Total for vendor APESOF - APEX SOFTWARE:				1,860.00	1,860.00			
Vendor ATCFOR - ATCHINSON FORD SALES INC:								
260447 98675	ATCHINSON FORD SALES INC 172 RTR WHEEL BEARING/PVC VALVE 101-301-860-000	10/22/2020 KTYLER	12/01/2020	817.92 817.92	817.92	Open	N 12/01/2020	
Total for vendor ATCFOR - ATCHINSON FORD SALES INC:				817.92	817.92			
Vendor BASIC - BASIC:								
10-571735 98780	BASIC 2021 FSA RENEW FEE/EMPLOYEE MAIL 101-101-956-000	11/17/2020 KTYLER	12/01/2020	715.00 715.00	715.00	Open	N 12/01/2020	
Total for vendor BASIC - BASIC:				715.00	715.00			
Vendor BECBOY - BECK & BOYS CUSTOM APPAREL:								
13386 98686	BECK & BOYS CUSTOM APPAREL (5) STOCK EMB POLICE BADGES 101-301-741-000	10/23/2020 KTYLER	12/01/2020	42.50 42.50	42.50	Open	N 12/01/2020	
Total for vendor BECBOY - BECK & BOYS CUSTOM APPAREL:				42.50	42.50			

Page: 4/23

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 5/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number Post Date
83840004 98690	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/09/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	320.02 320.02	320.02	Open	N 12/01/2020
83840005 98691	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/09/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	3.12 3.12	3.12	Open	N 12/01/2020
83845370 98692	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/12/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	23.09 23.09	23.09	Open	N 12/01/2020
Total for vendor BOTRME - BOUND TREE MEDICAL :				346.23	346.23		

Vendor CONBRU - BRUCE CONNELL:

INSPECTOR 98771	BRUCE CONNELL NOV PLBG INSP 101-370-819-000	11/19/2020 KTYLER NOV PLBG INSP	12/01/2020	2,860.00 2,860.00	2,860.00	Open	N 12/01/2020
Total for vendor CONBRU - BRUCE CONNELL:				2,860.00	2,860.00		

Vendor BUTLON - BUTZEL LONG:

9402267 98687	BUTZEL LONG JUN LEGAL SVCS 251-000-802-000	07/17/2020 KTYLER JUN LEGAL SVCS	12/01/2020	7,249.50 7,249.50	7,249.50	Open	N 12/01/2020
9404950 98688	BUTZEL LONG JUL LEGAL SVCS 251-000-802-000	08/05/2020 KTYLER JUL LEGAL SVCS	12/01/2020	13,260.95 13,260.95	13,260.95	Open	N 12/01/2020
Total for vendor BUTLON - BUTZEL LONG:				20,510.45	20,510.45		

Vendor COMASS - CA MARKETING INC:

64499 98693	CA MARKETING INC SEPT MARKETING SVCS DDA 247-000-822-000	09/25/2020 KTYLER SEPT MARKETING SVCS DDA	12/01/2020	3,350.00 3,350.00	3,350.00	Open	N 12/01/2020
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11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 6/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
64572 98694	CA MARKETING INC VANBUREN-MI.ORG HOSTING 10/2020 101-228-817-000	11/01/2020 KTYLER	12/01/2020	690.00 690.00	690.00	Open	N 12/01/2020	
Total for vendor COMASS - CA MARKETING INC:				4,040.00	4,040.00			

Vendor CHABUS - CHAPP & BUSHEY OIL CO:

180951 98696	CHAPP & BUSHEY OIL CO FUEL 101-301-860-001 101-336-860-001 592-536-751-000 101-265-860-000 101-265-860-000	11/12/2020 KTYLER	12/01/2020	2,854.22 2,026.50 114.17 376.76 219.77 117.02	2,854.22	Open	N 12/01/2020	
182639 98697	CHAPP & BUSHEY OIL CO DIESEL FUEL 101-336-860-001	11/12/2020 KTYLER	12/01/2020	278.12 278.12	278.12	Open	N 12/01/2020	
Total for vendor CHABUS - CHAPP & BUSHEY OIL CO:				3,132.34	3,132.34			

Vendor ROMCIT - CITY OF ROMULUS:

7759 98698	CITY OF ROMULUS NOV ANIMAL CONTROL SVCS 101-329-819-000	11/03/2020 KTYLER	12/01/2020	650.00 650.00	650.00	Open	N 12/01/2020	
Total for vendor ROMCIT - CITY OF ROMULUS:				650.00	650.00			

Vendor COMSOU - COMSOURCE:

16084 98695	COMSOURCE FD RADIO CHARGERS 101-336-741-000 101-336-741-000 101-336-741-000	10/29/2020 KTYLER	12/01/2020	1,878.75 1,275.00 575.00 28.75	1,878.75	Open	N 12/01/2020	20-0444
Total for vendor COMSOU - COMSOURCE:				1,878.75	1,878.75			

Vendor DAMASP - DAMARK MARINE SPECIALTIES:

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 7/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
4549								
98701	DAMARK MARINE SPECIALTIES	11/12/2020	12/01/2020	231.75	231.75	Open	N	
	WINTERIZE MARINE BOAT	KTYLER					12/01/2020	
	101-301-865-000	WINTERIZE MARINE BOAT		231.75				
	Total for vendor DAMASP - DAMARK MARINE SPECIALTIES:			231.75	231.75			

Vendor DELCOM - DELL MARKETING LP :

10434534667								
98699	DELL MARKETING LP	10/29/2020	12/01/2020	1,606.80	1,606.80	Open	N	20-0445
	COMPUTER FOR FIRE DEPT	KTYLER					12/01/2020	
	101-336-741-000	OPTIPLEX 7780 AIO		1,606.80				
	Total for vendor DELCOM - DELL MARKETING LP :			1,606.80	1,606.80			

Vendor DIREIN - DIVE RESCUE INTERNATIONAL:

INV183780								
98700	DIVE RESCUE INTERNATIONAL	11/06/2020	12/01/2020	995.00	995.00	Open	N	20-0441
	BREATHING VALVE FOR DIVE TEAM	KTYLER					12/01/2020	
	101-301-865-000	INTERSPIRO DIVATOR BREATHING VALVE		975.00				
	101-301-865-000	FREIGHT		20.00				
	Total for vendor DIREIN - DIVE RESCUE INTERNATIONAL:			995.00	995.00			

Vendor DOMVOT - DOMINION VOTING SYSTEMS INC:

DVS137633								
98782	DOMINION VOTING SYSTEMS INC	11/17/2020	12/01/2020	2,000.00	2,000.00	Open	N	20-0359
	ON-SITE SUPPORT-GENERAL ELECTION	KTYLER					12/01/2020	
	101-191-727-000	ON-SITE SUPPORT-NOVEMBER ELECTION		2,000.00				
	Total for vendor DOMVOT - DOMINION VOTING SYSTEMS INC:			2,000.00	2,000.00			

Vendor DUWA - DOWNRIVER UTILITY WASTEWATER AUTH:

0000301174								
98764	DOWNRIVER UTILITY WASTEWATER AUTH	11/01/2020	12/01/2020	13,845.00	13,845.00	Open	N	
	NOV 2020 EXCESS FLOW	KTYLER					12/01/2020	
	592-537-925-000	NOV 2020 EXCESS FLOW		13,845.00				
	Total for vendor DUWA - DOWNRIVER UTILITY WASTEWATER AUTH:			13,845.00	13,845.00			

Vendor DSSCOR - DSS CORPORATION:

21141								
98703	DSS CORPORATION	11/16/2020	12/01/2020	6,600.00	6,600.00	Open	N	
	12.10-12.09.21 VOICE RECORD MAIN	KTYLER					12/01/2020	

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 8/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
101-325-819-000	12.10-12.09.21 VOICE RECORD MAINT ANN			6,600.00			
Total for vendor DSSCOR - DSS CORPORATION:				6,600.00	6,600.00		
Vendor DUFISA - DUNDEE FIRE & SAFETY:							
4975							
98788	DUNDEE FIRE & SAFETY	11/15/2020	12/01/2020	78.25	78.25	Open	N
	FIRE EQUIPMENT INSP/TEST	KTYLER					12/01/2020
101-336-933-000	FIRE EQUIPMENT INSP/TEST			78.25			
Total for vendor DUFISA - DUNDEE FIRE & SAFETY:				78.25	78.25		
Vendor EXPTIR - EXPRESS TIRE:							
39426							
98702	EXPRESS TIRE	10/13/2020	12/01/2020	1,290.38	1,290.38	Open	N
	302 BRAKES	KTYLER					12/01/2020
101-329-860-000	302 BRAKES			1,290.38			
Total for vendor EXPTIR - EXPRESS TIRE:				1,290.38	1,290.38		
Vendor FEERIT - FEED RITE PET STORE:							
2464							
98704	FEED RITE PET STORE	10/29/2020	12/01/2020	188.95	188.95	Open	N
	JASE K.9 DOG FOOD/SUPPLIES	KTYLER					12/01/2020
266-000-863-000	JASE K.9 DOG FOOD/SUPPLIES			188.95			
Total for vendor FEERIT - FEED RITE PET STORE:				188.95	188.95		
Vendor FTCH - FISHBECK:							
396316							
98705	FISHBECK	11/06/2020	12/01/2020	4,326.50	4,326.50	Open	N
	10.30 VBT/WAM	KTYLER					12/01/2020
592-536-820-000	10.30 VBT/WAM			4,326.50			
396151							
98706	FISHBECK	11/04/2020	12/01/2020	11,954.50	11,954.50	Open	N
	10.30 VBT/SAW	KTYLER					12/01/2020
592-536-820-000	10.30 VBT/SAW			11,954.50			
396716							
98707	FISHBECK	11/09/2020	12/01/2020	2,234.50	2,234.50	Open	N
	10.30 VBT/DTE PAVING	KTYLER					12/01/2020
592-000-286-000	10.30 VBT/DTE PAVING			2,234.50			

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
 EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
 UNJOURNALIZED
 OPEN
 12.01.20 VOUCHER

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
396721 98708	FISHBECK 10.30 VBT/JFFY LUBE SITE 592-000-286-000	11/09/2020 KTYLER	12/01/2020	2,394.50 2,394.50	2,394.50	Open	N 12/01/2020	
396629 98709	FISHBECK 10.30 VBT/VICTORIA ESTATES 592-000-286-000	11/09/2020 KTYLER	12/01/2020	24,497.09 24,497.09	24,497.09	Open	N 12/01/2020	
396715 98710	FISHBECK 10.30 VBT/TIP W/S 592-536-820-000	11/09/2020 KTYLER	12/01/2020	25,443.51 25,443.51	25,443.51	Open	N 12/01/2020	
396713 98711	FISHBECK 10.30 VBT/BVL SQUARE WATER MAIN 592-536-970-001	11/09/2020 KTYLER	12/01/2020	984.50 984.50	984.50	Open	N 12/01/2020	
393024 98795	FISHBECK 6.12 VBT/PROJECT PANCAKE 592-000-286-000	06/22/2020 KTYLER	12/01/2020	543.00 543.00	543.00	Open	N 12/01/2020	
Total for vendor FTCH - FISHBECK:				72,378.10	72,378.10			

Vendor GMGMK - GASIOREK, MORGAN, GRECO & MCCAULEY,:

9829 98712	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	110.00 78.10 31.90	110.00	Open	N 12/01/2020	
9830 98713	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	2,457.50 1,744.83 712.67	2,457.50	Open	N 12/01/2020	
9831 98714	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	8,494.20 6,030.89 2,463.31	8,494.20	Open	N 12/01/2020	

11/25/2020 04:13 PM

User: KTYLER

DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
 EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
 UNJOURNALIZED
 OPEN
 12.01.20 VOUCHER

Page: 10/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
9832 98715	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	2,341.40 1,662.40 679.00	2,341.40	Open	N 12/01/2020	
9833 98716	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	475.00 337.25 137.75	475.00	Open	N 12/01/2020	
9834 98717	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	1,454.00 1,032.34 421.66	1,454.00	Open	N 12/01/2020	
Total for vendor GMGMK - GASIOREK, MORGAN, GRECO & MCCAULEY,:				15,332.10	15,332.10			

Vendor GLUS - GENERAL LINEN & UNIFORM SVCS:

312690 98718	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/01/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
313610 98719	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/08/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	25.00 25.00	25.00	Open	N 12/01/2020	
314549 98720	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/15/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	22.50 22.50	22.50	Open	N 12/01/2020	
315493 98721	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/22/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
316434 98722	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/29/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
Total for vendor GLUS - GENERAL LINEN & UNIFORM SVCS:				145.00	145.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 11/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
Vendor HARGER - GERALD HARDER, JR.:								
INSPECTOR 98761	GERALD HARDER, JR. NOV BLDG INSP 101-370-819-000	11/18/2020 KTYLER NOV BLDG INSP	12/01/2020	7,975.00 7,975.00	7,975.00 7,975.00	Open	N 12/01/2020	
Total for vendor HARGER - GERALD HARDER, JR.:				7,975.00	7,975.00			
Vendor GLWA - GREAT LAKES WATER AUTHORITY:								
300-1511-S 98777	GREAT LAKES WATER AUTHORITY SEPT IWC 592-537-924-000	10/16/2020 KTYLER SEPT IWC	12/01/2020	1,755.91 1,755.91	1,755.91	Open	N 12/01/2020	
300-1511-S 98778	GREAT LAKES WATER AUTHORITY OCT IWC 592-537-924-000	11/17/2020 KTYLER OCT IWC	12/01/2020	1,755.91 1,755.91	1,755.91	Open	N 12/01/2020	
Total for vendor GLWA - GREAT LAKES WATER AUTHORITY:				3,511.82	3,511.82			
Vendor IBAENT - IBACH ENTERPRISES LLC:								
REFUND 98724	IBACH ENTERPRISES LLC 013052-479 UNUSED PORTION OF HYD 592-000-284-000	11/10/2020 KTYLER 013052-479 UNUSED PORTION OF HYDRANT	12/01/2020	327.00 327.00	327.00	Open	N 12/01/2020	
Total for vendor IBAENT - IBACH ENTERPRISES LLC:				327.00	327.00			
Vendor J&TTOW - J&T TOWING:								
437789 98723	J&T TOWING 705 TOW TO SUPERIOR AUTO 101-265-860-000	11/06/2020 KTYLER 705 TOW TO SUPERIOR AUTO	12/01/2020	157.00 157.00	157.00	Open	N 12/01/2020	
Total for vendor J&TTOW - J&T TOWING:				157.00	157.00			
Vendor DOMJEF - JEFFREY DOMMER:								
INSPECTOR 98772	JEFFREY DOMMER NOV ELEC INSP 101-370-819-000	11/19/2020 KTYLER NOV ELEC INSP	12/01/2020	2,448.00 2,448.00	2,448.00	Open	N 12/01/2020	
Total for vendor DOMJEF - JEFFREY DOMMER:				2,448.00	2,448.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 12/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
Vendor DOUJOH - JOHN DOUGLASS, JR:								
INSPECTOR								
98779	JOHN DOUGLASS, JR	11/19/2020	12/01/2020	2,640.00	2,640.00	Open	N	
	NOV MECH INSP	KTYLER					12/01/2020	
	101-370-819-000	NOV MECH INSP		2,640.00				
	Total for vendor DOUJOH - JOHN DOUGLASS, JR:			2,640.00	2,640.00			

Vendor JOHCON - JOHNSON CONTROLS SECURITY SOLUTIONS:

35067409								
98800	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	66.19	66.19	Open	N	
	12.1-2.28.21 SECURITY W/S	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 SECURITY W/S		66.19				
35067407								
98801	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	45.45	45.45	Open	N	
	12.1-2.28.21 7563 HAGGERTY	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 7563 HAGGERTY		45.45				
35067410								
98802	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	64.98	64.98	Open	N	
	12.1-2.28.21 STATION 1	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 STATION 1		64.98				
35067411								
98803	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	122.75	122.75	Open	N	
	12.1-2.28.21 FS2	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 FS2		122.75				
35067413								
98804	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	653.97	653.97	Open	N	
	12.1-2.28.21 TWP HALL	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 TWP HALL		653.97				
35067412								
98805	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	77.39	77.39	Open	N	
	12.1-2.28.21 PARKS/REC	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 PARKS/REC		77.39				
	Total for vendor JOHCON - JOHNSON CONTROLS SECURITY SOLUTIONS:			1,030.73	1,030.73			

Vendor JOHLIT - JOHNSTON ENTERPRISES:

12794								
98762	JOHNSTON ENTERPRISES	05/01/2020	12/01/2020	92.00	92.00	Open	N	
	(4) SIGNS FOR FOOD BANK SENIORS	KTYLER					12/01/2020	
	101-692-742-000	(4) SIGNS FOR FOOD BANK SENIORS		92.00				

Page: 13/23

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 14/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
09/28/2020 98727	LYLE D DANULOFF PHD TELSCHOW PSYCH EVAL 101-325-956-000	09/28/2020 KTYLER TELSCHOW PSYCH EVAL	12/01/2020	400.00 400.00	400.00	Open	N 12/01/2020	
10/15/2020 98728	LYLE D DANULOFF PHD PAULS PSYCH EVAL 101-325-956-000	10/15/2020 KTYLER PAULS PSYCH EVAL	12/01/2020	400.00 400.00	400.00	Open	N 12/01/2020	
Total for vendor DANLYL - LYLE D DANULOFF PHD:				800.00	800.00			
Vendor MAFOSE - MARQUIS FOOD SERVICE:								
9549 98731	MARQUIS FOOD SERVICE 11.13 PRISONER MEALS 101-301-862-000	11/13/2020 KTYLER 11.13 PRISONER MEALS	12/01/2020	195.00 195.00	195.00	Open	N 12/01/2020	
Total for vendor MAFOSE - MARQUIS FOOD SERVICE:				195.00	195.00			
Vendor MCKASS - MCKENNA ASSOCIATES:								
98020-49 98797	MCKENNA ASSOCIATES OCT PRO PLNG SVCS 101-370-821-000 101-000-286-000	11/09/2020 KTYLER OCT PRO PLNG SVCS OCT PRO PLNG SVCS	12/01/2020	1,782.28 742.96 1,039.32	1,782.28	Open	N 12/01/2020	
21511-46 98798	MCKENNA ASSOCIATES OCT PRO SVCS 101-370-821-000	11/09/2020 KTYLER OCT PRO SVCS	12/01/2020	2,104.64 2,104.64	2,104.64	Open	N 12/01/2020	
21638-27 98799	MCKENNA ASSOCIATES OCT BLDG PLAN REVIEW SVCS 101-370-819-000	11/09/2020 KTYLER OCT BLDG PLAN REVIEW SVCS	12/01/2020	361.80 361.80	361.80	Open	N 12/01/2020	
Total for vendor MCKASS - MCKENNA ASSOCIATES:				4,248.72	4,248.72			
Vendor MIPOTR - MICHIGAN POLICE TRAINING:								
1290 98785	MICHIGAN POLICE TRAINING HILLEN 1.19-20/21-22 CMV CLASSES 101-000-123-000	11/17/2020 KTYLER HILLEN 1.19-20/21-22 CMV CLASSES	12/01/2020	850.00 850.00	850.00	Open	N 12/01/2020	
Total for vendor MIPOTR - MICHIGAN POLICE TRAINING:				850.00	850.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 15/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
Vendor MMLWCF - MML WORKERS COMP FUND:								
11261205 98730	MML WORKERS COMP FUND 3RD Q JAN-FEB-MAR WORKERS COMP I KTYLER 101-000-123-000 3RD Q JAN-FEB-MAR WORKERS COMP INSUR 592-000-123-000 3RD Q JAN-FEB-MAR WORKERS COMP INSUR Total for vendor MMLWCF - MML WORKERS COMP FUND:	11/06/2020 KTYLER	12/01/2020	19,318.00 11,590.80 7,727.20 19,318.00	19,318.00	Open	N 12/01/2020	
Vendor MR.BUBBLE - MR. BUBBLE AUTO SPA:								
OCT 2020 98732	MR. BUBBLE AUTO SPA OCT CAR WASHES POLICE 101-301-860-004 OCT CAR WASHES POLICE Total for vendor MR.BUBBLE - MR. BUBBLE AUTO SPA:	10/31/2020 KTYLER	12/01/2020	56.00 56.00 56.00	56.00	Open	N 12/01/2020	
Vendor BELNAP - NAPA AUTO PARTS OF BELLEVILLE:								
3637-828360 98734	NAPA AUTO PARTS OF BELLEVILLE FS1 CARLYLE BOOSTER PACK 101-336-931-000 FS1 CARLYLE BOOSTER PACK Total for vendor BELNAP - NAPA AUTO PARTS OF BELLEVILLE:	10/29/2020 KTYLER	12/01/2020	126.14 126.14 126.14	126.14	Open	N 12/01/2020	
Vendor NACOSE - NATURAL COMMUNITY SERVICES:								
2809 98739	NATURAL COMMUNITY SERVICES FRENCH LANDING PK MAINT 2020 NOV KTYLER 101-265-819-000 FRENCH LANDING PK MAINT 2020 NOV Total for vendor NACOSE - NATURAL COMMUNITY SERVICES:	11/13/2020 KTYLER	12/01/2020	1,000.00 1,000.00 1,000.00	1,000.00	Open	N 12/01/2020	20-0152
Vendor NOAR - NOAR TECHNOLOGIES:								
111220-PIX4D 98786	NOAR TECHNOLOGIES DRONE-BASED CRIME SCENE MAPPING/ KTYLER 101-301-861-000 DRONE-BASED CRIME SCENE MAPPING/TRAIN	11/12/2020 KTYLER	12/01/2020	4,990.00 4,990.00	4,990.00	Open	N 12/01/2020	20-0465
081820-MAP360 98787	NOAR TECHNOLOGIES CRASH/CRIME SCENE DRAWING TRAINI KTYLER 101-301-861-000 NOAR SW-MAP 360 101-301-861-000 USB KEY	11/06/2020 KTYLER	12/01/2020	4,670.00 2,495.00 50.00	4,670.00	Open	N 12/01/2020	20-0345

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 16/23

Inv Num Inv Ref#	Vendor Description	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
	GL Distribution							
	101-301-861-000	TRAINING		1,600.00				
	101-301-861-000	SURVEY TARGETS WITH MAP		525.00				
	Total for vendor NOAR - NOAR TECHNOLOGIES:			9,660.00	9,660.00			

Vendor OAKCOU - OAKLAND COUNTY TREASURERS:

FRM0002187 98735	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	1,704.25	1,704.25	Open	N 12/01/2020	
	3RD Q JUL-AUG-SEPT CLEMIS FIRE	KTYLER						
	101-336-819-000	3RD Q JUL-AUG-SEPT CLEMIS FIRE		1,704.25				
CLM0011710 98736	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	547.00	547.00	Open	N 12/01/2020	
	CLEMIS MDC PARTICIPATION FEE	KTYLER						
	101-336-819-000	CLEMIS MDC PARTICIPATION FEE		547.00				
CLM0011709 98737	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	12,824.22	12,824.22	Open	N 12/01/2020	
	3RD Q JUL-AUG-SEPT CLEMIS POLICE	KTYLER						
	101-301-819-000	3RD Q JUL-AUG-SEPT CLEMIS POLICE		12,824.22				
	Total for vendor OAKCOU - OAKLAND COUNTY TREASURERS:			15,075.47	15,075.47			

Vendor OLGLFL - OLD GLORY FLAGS & FLAGPOLES:

8063 98733	OLD GLORY FLAGS & FLAGPOLES	11/06/2020	12/01/2020	3,191.75	3,191.75	Open	N 12/01/2020	
	SUM TO WIN SWAPOUT	KTYLER						
	247-000-979-001	SUM TO WIN SWAPOUT		3,191.75				
	Total for vendor OLGLFL - OLD GLORY FLAGS & FLAGPOLES:			3,191.75	3,191.75			

Vendor ONDUGE - ON DUTY GEAR, LLC:

23662 98738	ON DUTY GEAR, LLC	10/29/2020	12/01/2020	1,147.00	1,147.00	Open	N 12/01/2020	
	R.BARRY BODY ARMOR/GEAR	KTYLER						
	101-301-741-000	R.BARRY BODY ARMOR/GEAR		1,147.00				
	Total for vendor ONDUGE - ON DUTY GEAR, LLC:			1,147.00	1,147.00			

Vendor PACE - PACE ANALYTICAL SERVICES:

2035389988 98748	PACE ANALYTICAL SERVICES	11/16/2020	12/01/2020	388.00	388.00	Open	N 12/01/2020	
	OCT WATER TESTING	KTYLER						
	592-536-819-000	OCT WATER TESTING		388.00				
	Total for vendor PACE - PACE ANALYTICAL SERVICES:			388.00	388.00			

Page: 17/23

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 18/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number Post Date
84958 98775	PROFESSIONAL ENGINEERING 8.8 2019-369 VBT IBT CD'S 101-718-958-000	08/21/2020 KTYLER	12/01/2020	1,650.00 1,650.00	1,650.00	Open	N 12/01/2020
85656 98776	PROFESSIONAL ENGINEERING 10.3 2020-0095 IBT VB SECTION J 101-718-958-000	10/22/2020 KTYLER	12/01/2020	2,250.00 2,250.00	2,250.00	Open	N 12/01/2020
Total for vendor PEAINC - PROFESSIONAL ENGINEERING:				3,900.00	3,900.00		
Vendor RAFT - REGIONAL ALLIANCE FIREFIGHTER TRNG:							
5165 98750	REGIONAL ALLIANCE FIREFIGHTER TRNG MCINALLY 12.2 ORGANIZATIONAL RIS 101-336-861-000	11/02/2020 KTYLER	12/01/2020	100.00 100.00	100.00	Open	N 12/01/2020
Total for vendor RAFT - REGIONAL ALLIANCE FIREFIGHTER TRNG:				100.00	100.00		
Vendor RITTERGIS - RITTER GIS :							
2020-1383 98749	RITTER GIS OCT GIS SVCS 592-536-816-000	11/06/2020 KTYLER	12/01/2020	3,800.00 3,800.00	3,800.00	Open	N 12/01/2020
Total for vendor RITTERGIS - RITTER GIS :				3,800.00	3,800.00		
Vendor ROBFAR - ROBAKIEWICZ FARMS:							
11/09/20 98781	ROBAKIEWICZ FARMS 75 STRAW BALES-VB PK SLED HILL 101-718-819-000	11/09/2020 KTYLER	12/01/2020	337.50 337.50	337.50	Open	N 12/01/2020
Total for vendor ROBFAR - ROBAKIEWICZ FARMS:				337.50	337.50		
Vendor SANMAR - SANDY'S MARINA:							
RE-ISSUE 98783	SANDY'S MARINA MARINE 1 BOAT FUEL 101-301-860-001	08/16/2020 KTYLER	12/01/2020	736.92 736.92	736.92	Open	N 12/01/2020
FUEL 98784	SANDY'S MARINA MARINE 1 BOAT FUEL	10/28/2020 KTYLER	12/01/2020	115.45	115.45	Open	N 12/01/2020

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 19/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
101-301-860-001	MARINE 1 BOAT FUEL			115.45				
	Total for vendor SANMAR - SANDY'S MARINA:			852.37	852.37			

Vendor EVASET - SETH EVANS:

REIMBURSE								
98751	SETH EVANS	10/29/2020	12/01/2020	28.61	28.61	Open	N	
	PEPPER SPRAY HOLDER	KTYLER					12/01/2020	
101-301-741-000	PEPPER SPRAY HOLDER			28.61				
	Total for vendor EVASET - SETH EVANS:			28.61	28.61			

Vendor SHVUA - SOUTH HURON VALLEY UTILITY ATH:

3617								
98752	SOUTH HURON VALLEY UTILITY ATH	11/15/2020	12/01/2020	95,942.00	95,942.00	Open	N	
	DEC SEWAGE O&M	KTYLER					12/01/2020	
592-537-924-000	DEC SEWAGE O&M			95,942.00				
	Total for vendor SHVUA - SOUTH HURON VALLEY UTILITY ATH:			95,942.00	95,942.00			

Vendor SOUEQU - SOUTHEASTERN EQUIPMENT CO:

S83451								
98792	SOUTHEASTERN EQUIPMENT CO	10/30/2020	12/01/2020	1,856.66	1,856.66	Open	N	
	506 REPAIRS	KTYLER					12/01/2020	
592-536-933-000	506 REPAIRS			1,856.66				
	Total for vendor SOUEQU - SOUTHEASTERN EQUIPMENT CO:			1,856.66	1,856.66			

Vendor MIDESE - STATE OF MICHIGAN:

RENEWAL								
98760	STATE OF MICHIGAN	11/16/2020	12/01/2020	117.00	117.00	Open	N	
	POLICE (9) VEHICLE RENEWAL TABS	KTYLER					12/01/2020	
101-301-860-000	83-90-91-100-101-102-191-192-200			117.00				
	Total for vendor MIDESE - STATE OF MICHIGAN:			117.00	117.00			

Vendor SUACHA - SUMPTER ACE HARDWARE:

4637								
98774	SUMPTER ACE HARDWARE	10/31/2020	12/01/2020	1,029.08	1,029.08	Open	N	
	OCT STMT	KTYLER					12/01/2020	
592-536-740-000	SILICONE			15.46				
101-265-740-000	MAGNET			6.83				
592-537-740-000	AUTO THREADLOCKER			16.18				
101-265-740-000	PEST REMOVAL PRODUCTS			90.43				
101-265-740-000	PEST REMOVAL PRODUCTS			32.71				

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 20/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
592-537-740-000	LIGHT BULBS			77.16				
101-301-743-000	PAINT SUPPLIES FOR OFFICES			83.07				
592-537-740-000	WILDBROOK LS FLOODLIGHT			40.49				
101-265-740-000	PEST REMOVAL SUPPLIES			63.84				
592-536-740-000	MOUNT TIES			25.18				
592-536-740-000	WILDBROOK LS FLOODLIGHT			6.99				
101-265-740-000	WORKLIGHT			57.58				
592-537-740-000	LOPPER TELESCOPIC POWER			29.69				
101-301-743-000	PAINT SUPPLIES FOR OFFICES			45.76				
592-536-740-000	PUMP KIT POWER DRILL			27.82				
101-265-933-000	T-2 TRLR REPAIRS			43.03				
101-265-933-000	T-2 TRLR REPAIRS			27.07				
592-536-740-000	EXTENSION CORD			7.19				
101-265-933-000	T-2 TRLR REPAIRS			58.40				
101-301-743-000	PAINT SUPPLIES FOR OFFICES			69.23				
592-537-740-000	PADLOCK			12.59				
101-265-740-000	SOCKETS/ADAPTERS			17.23				
592-537-740-000	CM FILTER RED PUSH ON			17.99				
592-536-740-000	GLOVES/BLADES			44.97				
101-265-740-000	PAINT SUPPLIES			36.32				
592-536-740-000	GLOVES			17.99				
101-265-740-000	STATION 3 TOOLS			45.91				
101-265-740-000	TUBING			11.97				
Total for vendor SUACHA - SUMPTER ACE HARDWARE:				1,029.08	1,029.08			

Vendor SWCUEM - THE SWEATSHOP CUSTOM EMBROIDERY:

1828								
98753	THE SWEATSHOP CUSTOM EMBROIDERY	11/08/2020	12/01/2020	720.00	720.00	Open	N	
	(9) EMBROIDERED JOB SHIRTS	KTYLER					12/01/2020	
	101-336-741-000	(9) EMBROIDERED JOB SHIRTS		720.00				
Total for vendor SWCUEM - THE SWEATSHOP CUSTOM EMBROIDERY:				720.00	720.00			

Vendor TNTTRE - TNT TREE SERVICE INC:

346998								
98745	TNT TREE SERVICE INC	11/24/2020	12/01/2020	700.00	700.00	Open	N	20-0450
	TREE BRANCH REMOVAL @ PICKLEBALL	KTYLER					12/01/2020	
	101-265-931-000	LARGE BRANCH REMOVAL		700.00				
Total for vendor TNTTRE - TNT TREE SERVICE INC:				700.00	700.00			

Vendor VABUST - VAN BUREN STEEL:

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 21/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
1016324 98754	VAN BUREN STEEL T-2 RAMP REPAIRS 101-265-933-000	10/27/2020 KTYLER	12/01/2020	375.00 375.00	375.00	Open	N 12/01/2020	
Total for vendor VABUST - VAN BUREN STEEL:				375.00	375.00			
Vendor VANASS - VANASSCHE CONSTRUCTION INC:								
5138 98755	VANASSCHE CONSTRUCTION INC DEBRIS CLEANUP @ 11048 JACKSON 101-329-819-000	07/30/2020 KTYLER	12/01/2020	350.00 350.00	350.00	Open	N 12/01/2020	
5248 98756	VANASSCHE CONSTRUCTION INC DEBRIS CLEANUP @ 42746 ALBA 101-329-819-000	11/03/2020 KTYLER	12/01/2020	200.00 200.00	200.00	Open	N 12/01/2020	
Total for vendor VANASS - VANASSCHE CONSTRUCTION INC:				550.00	550.00			
Vendor WADTRI - WADE TRIM :								
2019556 98796	WADE TRIM 10.30 BECK RD BYPASS VALVE/AUTOM 247-000-001-000	11/13/2020 KTYLER	12/01/2020	1,195.00 1,195.00	1,195.00	Open	N 12/01/2020	
Total for vendor WADTRI - WADE TRIM :				1,195.00	1,195.00			
Vendor WACORD - WAYNE COUNTY REGISTER OF DEEDS:								
AGREEMENT 98806	WAYNE COUNTY REGISTER OF DEEDS RECORD STORMWATER MAINT AGREE U. 101-370-900-000	11/20/2020 KTYLER	12/01/2020	51.00 51.00	51.00	Open	N 12/01/2020	
AGREEMENT 98807	WAYNE COUNTY REGISTER OF DEEDS RECORD STORMWATER MAINT AGREE BV 101-370-900-000	11/20/2020 KTYLER	12/01/2020	36.00 36.00	36.00	Open	N 12/01/2020	
Total for vendor WACORD - WAYNE COUNTY REGISTER OF DEEDS:				87.00	87.00			
Vendor WITMER - WITMER PUBLIC SAFETY GROUP :								
2070486 98757	WITMER PUBLIC SAFETY GROUP FIRE HYDRANT TOOLS	10/15/2020 KTYLER	12/01/2020	243.26	243.26	Open	N 12/01/2020	

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 22/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
	101-336-741-000	FIRE HYDRANT TOOLS		243.26			
2070486.001							
98758	WITMER PUBLIC SAFETY GROUP	10/21/2020	12/01/2020	228.10	228.10	Open	N
	FIRE HYDRANT PARTS	KTYLER					12/01/2020
	101-336-741-000	FIRE HYDRANT PARTS		228.10			
	Total for vendor WITMER - WITMER PUBLIC SAFETY GROUP :			<u>471.36</u>	<u>471.36</u>		

Vendor ZIPREC - ZIPRECRUITER :

8955026							
98759	ZIPRECRUITER	11/08/2020	12/01/2020	957.00	957.00	Open	N
	JOB POSTINGS FOR TWP	KTYLER					12/01/2020
	101-101-956-000	JOB POSTINGS FOR TWP		957.00			
	Total for vendor ZIPREC - ZIPRECRUITER :			<u>957.00</u>	<u>957.00</u>		

# of Invoices:	135	# Due:	135	Totals:	387,436.97	387,436.97
# of Credit Memos:	0	# Due:	0	Totals:	<u>0.00</u>	<u>0.00</u>
Net of Invoices and Credit Memos:					<u>387,436.97</u>	<u>387,436.97</u>

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 23/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
GL Distribution								
--- TOTALS BY FUND ---								
	101 - General Fund			153,370.79	153,370.79			
	247 - DDA Fund			7,736.75	7,736.75			
	251 - LDFA Fund			20,510.45	20,510.45			
	266 - State Forfeiture Fund			188.95	188.95			
	592 - Water/Sewer Fund			205,630.03	205,630.03			
--- TOTALS BY DEPT/ACTIVITY ---								
	000 -			84,765.56	84,765.56			
	101 - Township Board			3,622.00	3,622.00			
	191 - Election Department			2,000.00	2,000.00			
	210 - Attorney Fees			10,885.81	10,885.81			
	228 - IT Department			690.00	690.00			
	248 - General Office			1,274.54	1,274.54			
	265 - Building & Grounds			40,591.17	40,591.17			
	301 - Police Department			30,399.84	30,399.84			
	325 - Dispatch			9,544.09	9,544.09			
	329 - Ordinance Enforcement			2,490.38	2,490.38			
	336 - Fire Department			9,326.44	9,326.44			
	370 - Building/Planning Dept.			19,219.40	19,219.40			
	536 - Water Department			54,413.82	54,413.82			
	537 - Sewer Department			113,492.92	113,492.92			
	691 - Recreation Dept			207.00	207.00			
	692 - Seniors Dept			92.00	92.00			
	718 - Park & Lake Dept			4,422.00	4,422.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 2/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
81213 98679	ALLIE BROTHERS VELEVSKA UNIFORMS 101-301-741-000	10/29/2020 KTYLER	12/01/2020	109.98 109.98	109.98	Open	N 12/01/2020	
81258 98680	ALLIE BROTHERS MCINALLY UNIFORMS 101-336-741-000	10/30/2020 KTYLER	12/01/2020	129.99 129.99	129.99	Open	N 12/01/2020	
81387 98790	ALLIE BROTHERS J.WRIGHT UNIFORMS 101-301-741-000	11/11/2020 KTYLER	12/01/2020	481.92 481.92	481.92	Open	N 12/01/2020	
81369 98791	ALLIE BROTHERS UNIFORM SET FOR FULL TIME FIRE F 101-336-741-000	11/11/2020 KTYLER	12/01/2020	597.46 597.46	597.46	Open	N 12/01/2020	20-0323
Total for vendor ALLBRO - ALLIE BROTHERS:				1,319.35	1,319.35			
Vendor ALLALA - ALLSTAR ALARM LLC:								
295370 98770	ALLSTAR ALARM LLC 12.1-2.28.21 FIRE SYS INSP/ALARM 101-265-931-000	11/01/2020 KTYLER	12/01/2020	246.00 246.00	246.00	Open	N 12/01/2020	
Total for vendor ALLALA - ALLSTAR ALARM LLC:				246.00	246.00			
Vendor AMEINT - AMERICAN INTERIORS:								
31146 98766	AMERICAN INTERIORS PD FURNITURE -- INTERVIEW ROOM 101-265-970-000	11/10/2020 KTYLER	12/01/2020	1,552.11 1,552.11	1,552.11	Open	N 12/01/2020	20-0396
31144 98767	AMERICAN INTERIORS PD FURNITURE -- DETECTIVE COPY P 101-265-970-000	11/10/2020 KTYLER	12/01/2020	7,753.46 7,753.46	7,753.46	Open	N 12/01/2020	20-0397
31145 98768	AMERICAN INTERIORS PD FURNITURE -- DETECTIVE WORKST 101-265-970-000	11/10/2020 KTYLER	12/01/2020	15,902.71 15,902.71	15,902.71	Open	N 12/01/2020	20-0398

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 3/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
31143 98769	AMERICAN INTERIORS PD FURNITURE - DET. BAZZY OFFICE 101-265-970-000	11/10/2020 KTYLER	12/01/2020	5,402.42 5,402.42	5,402.42	Open	N 12/01/2020	20-0399
31142 98793	AMERICAN INTERIORS VBT HALLWAY BENCHES 101-265-970-000	11/10/2020 KTYLER	12/01/2020	3,779.46 3,779.46	3,779.46	Open	N 12/01/2020	20-0471
Total for vendor AMEINT - AMERICAN INTERIORS:				34,390.16	34,390.16			
Vendor APESOF - APEX SOFTWARE:								
311559 98765	APEX SOFTWARE APEX 7 SURFACE PRO STEVENSON/DOR 101-101-955-000	11/16/2020 KTYLER	12/01/2020	1,860.00 1,785.00 75.00	1,860.00	Open	N 12/01/2020	20-0466
Total for vendor APESOF - APEX SOFTWARE:				1,860.00	1,860.00			
Vendor ATCFOR - ATCHINSON FORD SALES INC:								
260447 98675	ATCHINSON FORD SALES INC 172 RTR WHEEL BEARING/PVC VALVE 101-301-860-000	10/22/2020 KTYLER	12/01/2020	817.92 817.92	817.92	Open	N 12/01/2020	
Total for vendor ATCFOR - ATCHINSON FORD SALES INC:				817.92	817.92			
Vendor BASIC - BASIC:								
10-571735 98780	BASIC 2021 FSA RENEW FEE/EMPLOYEE MAIL 101-101-956-000	11/17/2020 KTYLER	12/01/2020	715.00 715.00	715.00	Open	N 12/01/2020	
Total for vendor BASIC - BASIC:				715.00	715.00			
Vendor BECBOY - BECK & BOYS CUSTOM APPAREL:								
13386 98686	BECK & BOYS CUSTOM APPAREL (5) STOCK EMB POLICE BADGES 101-301-741-000	10/23/2020 KTYLER	12/01/2020	42.50 42.50	42.50	Open	N 12/01/2020	
Total for vendor BECBOY - BECK & BOYS CUSTOM APPAREL:				42.50	42.50			

Page: 4/23

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 5/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
83840004 98690	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/09/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	320.02 320.02	320.02	Open	N 12/01/2020	
83840005 98691	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/09/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	3.12 3.12	3.12	Open	N 12/01/2020	
83845370 98692	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/12/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	23.09 23.09	23.09	Open	N 12/01/2020	
Total for vendor BOTRME - BOUND TREE MEDICAL :				346.23	346.23			

Vendor CONBRU - BRUCE CONNELL:

INSPECTOR 98771	BRUCE CONNELL NOV PLBG INSP 101-370-819-000	11/19/2020 KTYLER NOV PLBG INSP	12/01/2020	2,860.00 2,860.00	2,860.00	Open	N 12/01/2020	
Total for vendor CONBRU - BRUCE CONNELL:				2,860.00	2,860.00			

Vendor BUTLON - BUTZEL LONG:

9402267 98687	BUTZEL LONG JUN LEGAL SVCS 251-000-802-000	07/17/2020 KTYLER JUN LEGAL SVCS	12/01/2020	7,249.50 7,249.50	7,249.50	Open	N 12/01/2020	
9404950 98688	BUTZEL LONG JUL LEGAL SVCS 251-000-802-000	08/05/2020 KTYLER JUL LEGAL SVCS	12/01/2020	13,260.95 13,260.95	13,260.95	Open	N 12/01/2020	
Total for vendor BUTLON - BUTZEL LONG:				20,510.45	20,510.45			

Vendor COMASS - CA MARKETING INC:

64499 98693	CA MARKETING INC SEPT MARKETING SVCS DDA 247-000-822-000	09/25/2020 KTYLER SEPT MARKETING SVCS DDA	12/01/2020	3,350.00 3,350.00	3,350.00	Open	N 12/01/2020	
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11/25/2020 04:13 PM
User: KTYLER
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INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 6/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
64572 98694	CA MARKETING INC VANBUREN-MI.ORG HOSTING 10/2020 101-228-817-000	11/01/2020 KTYLER	12/01/2020	690.00 690.00	690.00	Open	N 12/01/2020	
Total for vendor COMASS - CA MARKETING INC:				4,040.00	4,040.00			

Vendor CHABUS - CHAPP & BUSHEY OIL CO:

180951 98696	CHAPP & BUSHEY OIL CO FUEL 101-301-860-001 101-336-860-001 592-536-751-000 101-265-860-000 101-265-860-000	11/12/2020 KTYLER	12/01/2020	2,854.22 2,026.50 114.17 376.76 219.77 117.02	2,854.22	Open	N 12/01/2020	
182639 98697	CHAPP & BUSHEY OIL CO DIESEL FUEL 101-336-860-001	11/12/2020 KTYLER	12/01/2020	278.12 278.12	278.12	Open	N 12/01/2020	
Total for vendor CHABUS - CHAPP & BUSHEY OIL CO:				3,132.34	3,132.34			

Vendor ROMCIT - CITY OF ROMULUS:

7759 98698	CITY OF ROMULUS NOV ANIMAL CONTROL SVCS 101-329-819-000	11/03/2020 KTYLER	12/01/2020	650.00 650.00	650.00	Open	N 12/01/2020	
Total for vendor ROMCIT - CITY OF ROMULUS:				650.00	650.00			

Vendor COMSOU - COMSOURCE:

16084 98695	COMSOURCE FD RADIO CHARGERS 101-336-741-000 101-336-741-000 101-336-741-000	10/29/2020 KTYLER	12/01/2020	1,878.75 1,275.00 575.00 28.75	1,878.75	Open	N 12/01/2020	20-0444
Total for vendor COMSOU - COMSOURCE:				1,878.75	1,878.75			

Vendor DAMASP - DAMARK MARINE SPECIALTIES:

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 7/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
4549								
98701	DAMARK MARINE SPECIALTIES	11/12/2020	12/01/2020	231.75	231.75	Open	N	
	WINTERIZE MARINE BOAT	KTYLER					12/01/2020	
	101-301-865-000	WINTERIZE MARINE BOAT		231.75				
	Total for vendor DAMASP - DAMARK MARINE SPECIALTIES:			231.75	231.75			

Vendor DELCOM - DELL MARKETING LP :

10434534667								
98699	DELL MARKETING LP	10/29/2020	12/01/2020	1,606.80	1,606.80	Open	N	20-0445
	COMPUTER FOR FIRE DEPT	KTYLER					12/01/2020	
	101-336-741-000	OPTIPLEX 7780 AIO		1,606.80				
	Total for vendor DELCOM - DELL MARKETING LP :			1,606.80	1,606.80			

Vendor DIREIN - DIVE RESCUE INTERNATIONAL:

INV183780								
98700	DIVE RESCUE INTERNATIONAL	11/06/2020	12/01/2020	995.00	995.00	Open	N	20-0441
	BREATHING VALVE FOR DIVE TEAM	KTYLER					12/01/2020	
	101-301-865-000	INTERSPIRO DIVATOR BREATHING VALVE		975.00				
	101-301-865-000	FREIGHT		20.00				
	Total for vendor DIREIN - DIVE RESCUE INTERNATIONAL:			995.00	995.00			

Vendor DOMVOT - DOMINION VOTING SYSTEMS INC:

DVS137633								
98782	DOMINION VOTING SYSTEMS INC	11/17/2020	12/01/2020	2,000.00	2,000.00	Open	N	20-0359
	ON-SITE SUPPORT-GENERAL ELECTION	KTYLER					12/01/2020	
	101-191-727-000	ON-SITE SUPPORT-NOVEMBER ELECTION		2,000.00				
	Total for vendor DOMVOT - DOMINION VOTING SYSTEMS INC:			2,000.00	2,000.00			

Vendor DUWA - DOWNRIVER UTILITY WASTEWATER AUTH:

0000301174								
98764	DOWNRIVER UTILITY WASTEWATER AUTH	11/01/2020	12/01/2020	13,845.00	13,845.00	Open	N	
	NOV 2020 EXCESS FLOW	KTYLER					12/01/2020	
	592-537-925-000	NOV 2020 EXCESS FLOW		13,845.00				
	Total for vendor DUWA - DOWNRIVER UTILITY WASTEWATER AUTH:			13,845.00	13,845.00			

Vendor DSSCOR - DSS CORPORATION:

21141								
98703	DSS CORPORATION	11/16/2020	12/01/2020	6,600.00	6,600.00	Open	N	
	12.10-12.09.21 VOICE RECORD MAIN	KTYLER					12/01/2020	

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 8/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
101-325-819-000	12.10-12.09.21 VOICE RECORD MAINT ANN			6,600.00			
	Total for vendor DSSCOR - DSS CORPORATION:			6,600.00	6,600.00		

Vendor DUFISA - DUNDEE FIRE & SAFETY:

4975							
98788	DUNDEE FIRE & SAFETY	11/15/2020	12/01/2020	78.25	78.25	Open	N
	FIRE EQUIPMENT INSP/TEST	KTYLER					12/01/2020
101-336-933-000	FIRE EQUIPMENT INSP/TEST			78.25			
	Total for vendor DUFISA - DUNDEE FIRE & SAFETY:			78.25	78.25		

Vendor EXPTIR - EXPRESS TIRE:

39426							
98702	EXPRESS TIRE	10/13/2020	12/01/2020	1,290.38	1,290.38	Open	N
	302 BRAKES	KTYLER					12/01/2020
101-329-860-000	302 BRAKES			1,290.38			
	Total for vendor EXPTIR - EXPRESS TIRE:			1,290.38	1,290.38		

Vendor FEERIT - FEED RITE PET STORE:

2464							
98704	FEED RITE PET STORE	10/29/2020	12/01/2020	188.95	188.95	Open	N
	JASE K.9 DOG FOOD/SUPPLIES	KTYLER					12/01/2020
266-000-863-000	JASE K.9 DOG FOOD/SUPPLIES			188.95			
	Total for vendor FEERIT - FEED RITE PET STORE:			188.95	188.95		

Vendor FTCH - FISHBECK:

396316							
98705	FISHBECK	11/06/2020	12/01/2020	4,326.50	4,326.50	Open	N
	10.30 VBT/WAM	KTYLER					12/01/2020
592-536-820-000	10.30 VBT/WAM			4,326.50			
396151							
98706	FISHBECK	11/04/2020	12/01/2020	11,954.50	11,954.50	Open	N
	10.30 VBT/SAW	KTYLER					12/01/2020
592-536-820-000	10.30 VBT/SAW			11,954.50			
396716							
98707	FISHBECK	11/09/2020	12/01/2020	2,234.50	2,234.50	Open	N
	10.30 VBT/DTE PAVING	KTYLER					12/01/2020
592-000-286-000	10.30 VBT/DTE PAVING			2,234.50			

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
 EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
 UNJOURNALIZED
 OPEN
 12.01.20 VOUCHER

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
396721 98708	FISHBECK 10.30 VBT/JFFY LUBE SITE 592-000-286-000	11/09/2020 KTYLER	12/01/2020	2,394.50 2,394.50	2,394.50	Open	N 12/01/2020	
396629 98709	FISHBECK 10.30 VBT/VICTORIA ESTATES 592-000-286-000	11/09/2020 KTYLER	12/01/2020	24,497.09 24,497.09	24,497.09	Open	N 12/01/2020	
396715 98710	FISHBECK 10.30 VBT/TIP W/S 592-536-820-000	11/09/2020 KTYLER	12/01/2020	25,443.51 25,443.51	25,443.51	Open	N 12/01/2020	
396713 98711	FISHBECK 10.30 VBT/BVL SQUARE WATER MAIN 592-536-970-001	11/09/2020 KTYLER	12/01/2020	984.50 984.50	984.50	Open	N 12/01/2020	
393024 98795	FISHBECK 6.12 VBT/PROJECT PANCAKE 592-000-286-000	06/22/2020 KTYLER	12/01/2020	543.00 543.00	543.00	Open	N 12/01/2020	
Total for vendor FTCH - FISHBECK:				72,378.10	72,378.10			
Vendor GMGMK - GASIOREK, MORGAN, GRECO & MCCAULEY,:								
9829 98712	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	110.00 78.10 31.90	110.00	Open	N 12/01/2020	
9830 98713	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	2,457.50 1,744.83 712.67	2,457.50	Open	N 12/01/2020	
9831 98714	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	8,494.20 6,030.89 2,463.31	8,494.20	Open	N 12/01/2020	

11/25/2020 04:13 PM

User: KTYLER

DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
 EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
 UNJOURNALIZED
 OPEN
 12.01.20 VOUCHER

Page: 10/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
9832 98715	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	2,341.40 1,662.40 679.00	2,341.40	Open	N 12/01/2020	
9833 98716	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	475.00 337.25 137.75	475.00	Open	N 12/01/2020	
9834 98717	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	1,454.00 1,032.34 421.66	1,454.00	Open	N 12/01/2020	
Total for vendor GMGMK - GASIOREK, MORGAN, GRECO & MCCAULEY,:				15,332.10	15,332.10			

Vendor GLUS - GENERAL LINEN & UNIFORM SVCS:

312690 98718	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/01/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
313610 98719	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/08/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	25.00 25.00	25.00	Open	N 12/01/2020	
314549 98720	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/15/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	22.50 22.50	22.50	Open	N 12/01/2020	
315493 98721	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/22/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
316434 98722	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/29/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
Total for vendor GLUS - GENERAL LINEN & UNIFORM SVCS:				145.00	145.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 11/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
Vendor HARGER - GERALD HARDER, JR.:								
INSPECTOR 98761	GERALD HARDER, JR. NOV BLDG INSP 101-370-819-000	11/18/2020 KTYLER NOV BLDG INSP	12/01/2020	7,975.00 7,975.00	7,975.00 7,975.00	Open	N 12/01/2020	
Total for vendor HARGER - GERALD HARDER, JR.:				7,975.00	7,975.00			
Vendor GLWA - GREAT LAKES WATER AUTHORITY:								
300-1511-S 98777	GREAT LAKES WATER AUTHORITY SEPT IWC 592-537-924-000	10/16/2020 KTYLER SEPT IWC	12/01/2020	1,755.91 1,755.91	1,755.91	Open	N 12/01/2020	
300-1511-S 98778	GREAT LAKES WATER AUTHORITY OCT IWC 592-537-924-000	11/17/2020 KTYLER OCT IWC	12/01/2020	1,755.91 1,755.91	1,755.91	Open	N 12/01/2020	
Total for vendor GLWA - GREAT LAKES WATER AUTHORITY:				3,511.82	3,511.82			
Vendor IBAENT - IBACH ENTERPRISES LLC:								
REFUND 98724	IBACH ENTERPRISES LLC 013052-479 UNUSED PORTION OF HYD 592-000-284-000	11/10/2020 KTYLER 013052-479 UNUSED PORTION OF HYDRANT	12/01/2020	327.00 327.00	327.00	Open	N 12/01/2020	
Total for vendor IBAENT - IBACH ENTERPRISES LLC:				327.00	327.00			
Vendor J&TTOW - J&T TOWING:								
437789 98723	J&T TOWING 705 TOW TO SUPERIOR AUTO 101-265-860-000	11/06/2020 KTYLER 705 TOW TO SUPERIOR AUTO	12/01/2020	157.00 157.00	157.00	Open	N 12/01/2020	
Total for vendor J&TTOW - J&T TOWING:				157.00	157.00			
Vendor DOMJEF - JEFFREY DOMMER:								
INSPECTOR 98772	JEFFREY DOMMER NOV ELEC INSP 101-370-819-000	11/19/2020 KTYLER NOV ELEC INSP	12/01/2020	2,448.00 2,448.00	2,448.00	Open	N 12/01/2020	
Total for vendor DOMJEF - JEFFREY DOMMER:				2,448.00	2,448.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 12/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
Vendor DOUJOH - JOHN DOUGLASS, JR:								
INSPECTOR								
98779	JOHN DOUGLASS, JR	11/19/2020	12/01/2020	2,640.00	2,640.00	Open	N	
	NOV MECH INSP	KTYLER					12/01/2020	
	101-370-819-000	NOV MECH INSP		2,640.00				
	Total for vendor DOUJOH - JOHN DOUGLASS, JR:			2,640.00	2,640.00			

Vendor JOHCON - JOHNSON CONTROLS SECURITY SOLUTIONS:

35067409								
98800	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	66.19	66.19	Open	N	
	12.1-2.28.21 SECURITY W/S	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 SECURITY W/S		66.19				
35067407								
98801	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	45.45	45.45	Open	N	
	12.1-2.28.21 7563 HAGGERTY	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 7563 HAGGERTY		45.45				
35067410								
98802	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	64.98	64.98	Open	N	
	12.1-2.28.21 STATION 1	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 STATION 1		64.98				
35067411								
98803	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	122.75	122.75	Open	N	
	12.1-2.28.21 FS2	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 FS2		122.75				
35067413								
98804	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	653.97	653.97	Open	N	
	12.1-2.28.21 TWP HALL	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 TWP HALL		653.97				
35067412								
98805	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	77.39	77.39	Open	N	
	12.1-2.28.21 PARKS/REC	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 PARKS/REC		77.39				
	Total for vendor JOHCON - JOHNSON CONTROLS SECURITY SOLUTIONS:			1,030.73	1,030.73			

Vendor JOHLIT - JOHNSTON ENTERPRISES:

12794								
98762	JOHNSTON ENTERPRISES	05/01/2020	12/01/2020	92.00	92.00	Open	N	
	(4) SIGNS FOR FOOD BANK SENIORS	KTYLER					12/01/2020	
	101-692-742-000	(4) SIGNS FOR FOOD BANK SENIORS		92.00				

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
	Total for vendor JOHLIT - JOHNSTON ENTERPRISES:			92.00	92.00			
Vendor KENIND - KENNEDY INDUSTRIES INC:								
620384								
98763	KENNEDY INDUSTRIES INC	09/01/2020	12/01/2020	691.50	691.50	Open	N	
	VB TWP HALL STORM STATION REPAIR KTYLER						12/01/2020	
	592-536-819-000			691.50				
	VB TWP HALL STORM STATION REPAIRS							
	Total for vendor KENIND - KENNEDY INDUSTRIES INC:			691.50	691.50			
Vendor KENCOM - KENT COMMUNICATIONS:								
210507								
98725	KENT COMMUNICATIONS	11/12/2020	12/01/2020	97.91	97.91	Open	N	
	POSTAGE FOR 2021 PERS PROP STMTS KTYLER						12/01/2020	
	101-248-728-000			97.91				
	POSTAGE FOR 2021 PERS PROP STMTS							
	Total for vendor KENCOM - KENT COMMUNICATIONS:			97.91	97.91			
Vendor MISC - LEONARD CARNAGHI:								
REFUND								
98794	LEONARD CARNAGHI	11/12/2020	12/01/2020	5,000.00	5,000.00	Open	N	
	100176 BOND @ 9273 BVL RD KTYLER						12/01/2020	
	101-000-285-000			5,000.00				
	100176 BOND @ 9273 BVL RD							
	Total for vendor MISC - LEONARD CARNAGHI:			5,000.00	5,000.00			
Vendor LOHUSU - LOWER HURON SUPPLY:								
449775								
98729	LOWER HURON SUPPLY	11/13/2020	12/01/2020	477.94	477.94	Open	N	
	JANITORIAL SUPPLIES KTYLER						12/01/2020	
	101-336-740-000			477.94				
	JANITORIAL SUPPLIES							
	Total for vendor LOHUSU - LOWER HURON SUPPLY:			477.94	477.94			
Vendor LPPOLI - LP POLICE:								
1020LP16352								
98726	LP POLICE	10/31/2020	12/01/2020	129.95	129.95	Open	N	
	OCT BACKGROUND CHECKS KTYLER						12/01/2020	
	101-301-819-000			129.95				
	OCT BACKGROUND CHECKS							
	Total for vendor LPPOLI - LP POLICE:			129.95	129.95			
Vendor DANLYL - LYLE D DANULOFF PHD:								

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 14/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
09/28/2020 98727	LYLE D DANULOFF PHD TELSCHOW PSYCH EVAL 101-325-956-000	09/28/2020 KTYLER TELSCHOW PSYCH EVAL	12/01/2020	400.00 400.00	400.00	Open	N 12/01/2020	
10/15/2020 98728	LYLE D DANULOFF PHD PAULS PSYCH EVAL 101-325-956-000	10/15/2020 KTYLER PAULS PSYCH EVAL	12/01/2020	400.00 400.00	400.00	Open	N 12/01/2020	
Total for vendor DANLYL - LYLE D DANULOFF PHD:				800.00	800.00			
Vendor MAFOSE - MARQUIS FOOD SERVICE:								
9549 98731	MARQUIS FOOD SERVICE 11.13 PRISONER MEALS 101-301-862-000	11/13/2020 KTYLER 11.13 PRISONER MEALS	12/01/2020	195.00 195.00	195.00	Open	N 12/01/2020	
Total for vendor MAFOSE - MARQUIS FOOD SERVICE:				195.00	195.00			
Vendor MCKASS - MCKENNA ASSOCIATES:								
98020-49 98797	MCKENNA ASSOCIATES OCT PRO PLNG SVCS 101-370-821-000 101-000-286-000	11/09/2020 KTYLER OCT PRO PLNG SVCS OCT PRO PLNG SVCS	12/01/2020	1,782.28 742.96 1,039.32	1,782.28	Open	N 12/01/2020	
21511-46 98798	MCKENNA ASSOCIATES OCT PRO SVCS 101-370-821-000	11/09/2020 KTYLER OCT PRO SVCS	12/01/2020	2,104.64 2,104.64	2,104.64	Open	N 12/01/2020	
21638-27 98799	MCKENNA ASSOCIATES OCT BLDG PLAN REVIEW SVCS 101-370-819-000	11/09/2020 KTYLER OCT BLDG PLAN REVIEW SVCS	12/01/2020	361.80 361.80	361.80	Open	N 12/01/2020	
Total for vendor MCKASS - MCKENNA ASSOCIATES:				4,248.72	4,248.72			
Vendor MIPOTR - MICHIGAN POLICE TRAINING:								
1290 98785	MICHIGAN POLICE TRAINING HILLEN 1.19-20/21-22 CMV CLASSES 101-000-123-000	11/17/2020 KTYLER HILLEN 1.19-20/21-22 CMV CLASSES	12/01/2020	850.00 850.00	850.00	Open	N 12/01/2020	
Total for vendor MIPOTR - MICHIGAN POLICE TRAINING:				850.00	850.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 15/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
Vendor MMLWCF - MML WORKERS COMP FUND:								
11261205 98730	MML WORKERS COMP FUND 3RD Q JAN-FEB-MAR WORKERS COMP I KTYLER 101-000-123-000 3RD Q JAN-FEB-MAR WORKERS COMP INSUR 592-000-123-000 3RD Q JAN-FEB-MAR WORKERS COMP INSUR Total for vendor MMLWCF - MML WORKERS COMP FUND:	11/06/2020 KTYLER	12/01/2020	19,318.00 11,590.80 7,727.20 19,318.00	19,318.00	Open	N 12/01/2020	
Vendor MR.BUBBLE - MR. BUBBLE AUTO SPA:								
OCT 2020 98732	MR. BUBBLE AUTO SPA OCT CAR WASHES POLICE 101-301-860-004 OCT CAR WASHES POLICE Total for vendor MR.BUBBLE - MR. BUBBLE AUTO SPA:	10/31/2020 KTYLER	12/01/2020	56.00 56.00 56.00	56.00	Open	N 12/01/2020	
Vendor BELNAP - NAPA AUTO PARTS OF BELLEVILLE:								
3637-828360 98734	NAPA AUTO PARTS OF BELLEVILLE FS1 CARLYLE BOOSTER PACK 101-336-931-000 FS1 CARLYLE BOOSTER PACK Total for vendor BELNAP - NAPA AUTO PARTS OF BELLEVILLE:	10/29/2020 KTYLER	12/01/2020	126.14 126.14 126.14	126.14	Open	N 12/01/2020	
Vendor NACOSE - NATURAL COMMUNITY SERVICES:								
2809 98739	NATURAL COMMUNITY SERVICES FRENCH LANDING PK MAINT 2020 NOV KTYLER 101-265-819-000 FRENCH LANDING PK MAINT 2020 NOV Total for vendor NACOSE - NATURAL COMMUNITY SERVICES:	11/13/2020 KTYLER	12/01/2020	1,000.00 1,000.00 1,000.00	1,000.00	Open	N 12/01/2020	20-0152
Vendor NOAR - NOAR TECHNOLOGIES:								
111220-PIX4D 98786	NOAR TECHNOLOGIES DRONE-BASED CRIME SCENE MAPPING/ 101-301-861-000 DRONE-BASED CRIME SCENE MAPPING/TRAIN	11/12/2020 KTYLER	12/01/2020	4,990.00 4,990.00	4,990.00	Open	N 12/01/2020	20-0465
081820-MAP360 98787	NOAR TECHNOLOGIES CRASH/CRIME SCENE DRAWING TRAINI KTYLER 101-301-861-000 NOAR SW-MAP 360 101-301-861-000 USB KEY	11/06/2020 KTYLER	12/01/2020	4,670.00 2,495.00 50.00	4,670.00	Open	N 12/01/2020	20-0345

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 16/23

Inv Num Inv Ref#	Vendor Description	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
	GL Distribution							
	101-301-861-000	TRAINING		1,600.00				
	101-301-861-000	SURVEY TARGETS WITH MAP		525.00				
	Total for vendor NOAR - NOAR TECHNOLOGIES:			9,660.00	9,660.00			

Vendor OAKCOU - OAKLAND COUNTY TREASURERS:

FRM0002187 98735	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	1,704.25	1,704.25	Open	N 12/01/2020	
	3RD Q JUL-AUG-SEPT CLEMIS FIRE	KTYLER						
	101-336-819-000	3RD Q JUL-AUG-SEPT CLEMIS FIRE		1,704.25				
CLM0011710 98736	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	547.00	547.00	Open	N 12/01/2020	
	CLEMIS MDC PARTICIPATION FEE	KTYLER						
	101-336-819-000	CLEMIS MDC PARTICIPATION FEE		547.00				
CLM0011709 98737	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	12,824.22	12,824.22	Open	N 12/01/2020	
	3RD Q JUL-AUG-SEPT CLEMIS POLICE	KTYLER						
	101-301-819-000	3RD Q JUL-AUG-SEPT CLEMIS POLICE		12,824.22				
	Total for vendor OAKCOU - OAKLAND COUNTY TREASURERS:			15,075.47	15,075.47			

Vendor OLGLFL - OLD GLORY FLAGS & FLAGPOLES:

8063 98733	OLD GLORY FLAGS & FLAGPOLES	11/06/2020	12/01/2020	3,191.75	3,191.75	Open	N 12/01/2020	
	SUM TO WIN SWAPOUT	KTYLER						
	247-000-979-001	SUM TO WIN SWAPOUT		3,191.75				
	Total for vendor OLGLFL - OLD GLORY FLAGS & FLAGPOLES:			3,191.75	3,191.75			

Vendor ONDUGE - ON DUTY GEAR, LLC:

23662 98738	ON DUTY GEAR, LLC	10/29/2020	12/01/2020	1,147.00	1,147.00	Open	N 12/01/2020	
	R.BARRY BODY ARMOR/GEAR	KTYLER						
	101-301-741-000	R.BARRY BODY ARMOR/GEAR		1,147.00				
	Total for vendor ONDUGE - ON DUTY GEAR, LLC:			1,147.00	1,147.00			

Vendor PACE - PACE ANALYTICAL SERVICES:

2035389988 98748	PACE ANALYTICAL SERVICES	11/16/2020	12/01/2020	388.00	388.00	Open	N 12/01/2020	
	OCT WATER TESTING	KTYLER						
	592-536-819-000	OCT WATER TESTING		388.00				
	Total for vendor PACE - PACE ANALYTICAL SERVICES:			388.00	388.00			

Page: 17/23

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 18/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number Post Date
84958 98775	PROFESSIONAL ENGINEERING 8.8 2019-369 VBT IBT CD'S 101-718-958-000	08/21/2020 KTYLER 8.8 2019-369 VBT IBT CD'S	12/01/2020	1,650.00 1,650.00	1,650.00	Open	N 12/01/2020
85656 98776	PROFESSIONAL ENGINEERING 10.3 2020-0095 IBT VB SECTION J 101-718-958-000	10/22/2020 KTYLER 10.3 2020-0095 IBT VB SECTION J	12/01/2020	2,250.00 2,250.00	2,250.00	Open	N 12/01/2020
Total for vendor PEAINC - PROFESSIONAL ENGINEERING:				3,900.00	3,900.00		
Vendor RAFT - REGIONAL ALLIANCE FIREFIGHTER TRNG:							
5165 98750	REGIONAL ALLIANCE FIREFIGHTER TRNG MCINALLY 12.2 ORGANIZATIONAL RIS 101-336-861-000	11/02/2020 KTYLER MCINALLY 12.2 ORGANIZATIONAL RISK MGM	12/01/2020	100.00 100.00	100.00	Open	N 12/01/2020
Total for vendor RAFT - REGIONAL ALLIANCE FIREFIGHTER TRNG:				100.00	100.00		
Vendor RITTERGIS - RITTER GIS :							
2020-1383 98749	RITTER GIS OCT GIS SVCS 592-536-816-000	11/06/2020 KTYLER OCT GIS SVCS	12/01/2020	3,800.00 3,800.00	3,800.00	Open	N 12/01/2020
Total for vendor RITTERGIS - RITTER GIS :				3,800.00	3,800.00		
Vendor ROBFAR - ROBAKIEWICZ FARMS:							
11/09/20 98781	ROBAKIEWICZ FARMS 75 STRAW BALES-VB PK SLED HILL 101-718-819-000	11/09/2020 KTYLER 75 STRAW BALES-VB PK SLED HILL	12/01/2020	337.50 337.50	337.50	Open	N 12/01/2020
Total for vendor ROBFAR - ROBAKIEWICZ FARMS:				337.50	337.50		
Vendor SANMAR - SANDY'S MARINA:							
RE-ISSUE 98783	SANDY'S MARINA MARINE 1 BOAT FUEL 101-301-860-001	08/16/2020 KTYLER MARINE 1 BOAT FUEL	12/01/2020	736.92 736.92	736.92	Open	N 12/01/2020
FUEL 98784	SANDY'S MARINA MARINE 1 BOAT FUEL	10/28/2020 KTYLER	12/01/2020	115.45	115.45	Open	N 12/01/2020

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 19/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized PO Number
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
	101-301-860-001	MARINE 1 BOAT FUEL		115.45			
	Total for vendor SANMAR - SANDY'S MARINA:			852.37	852.37		
Vendor EVASET - SETH EVANS:							
REIMBURSE							
98751	SETH EVANS	10/29/2020	12/01/2020	28.61	28.61	Open	N
	PEPPER SPRAY HOLDER	KTYLER					12/01/2020
	101-301-741-000	PEPPER SPRAY HOLDER		28.61			
	Total for vendor EVASET - SETH EVANS:			28.61	28.61		
Vendor SHVUA - SOUTH HURON VALLEY UTILITY ATH:							
3617							
98752	SOUTH HURON VALLEY UTILITY ATH	11/15/2020	12/01/2020	95,942.00	95,942.00	Open	N
	DEC SEWAGE O&M	KTYLER					12/01/2020
	592-537-924-000	DEC SEWAGE O&M		95,942.00			
	Total for vendor SHVUA - SOUTH HURON VALLEY UTILITY ATH:			95,942.00	95,942.00		
Vendor SOUEQU - SOUTHEASTERN EQUIPMENT CO:							
S83451							
98792	SOUTHEASTERN EQUIPMENT CO	10/30/2020	12/01/2020	1,856.66	1,856.66	Open	N
	506 REPAIRS	KTYLER					12/01/2020
	592-536-933-000	506 REPAIRS		1,856.66			
	Total for vendor SOUEQU - SOUTHEASTERN EQUIPMENT CO:			1,856.66	1,856.66		
Vendor MIDESE - STATE OF MICHIGAN:							
RENEWAL							
98760	STATE OF MICHIGAN	11/16/2020	12/01/2020	117.00	117.00	Open	N
	POLICE (9) VEHICLE RENEWAL TABS	KTYLER					12/01/2020
	101-301-860-000	83-90-91-100-101-102-191-192-200		117.00			
	Total for vendor MIDESE - STATE OF MICHIGAN:			117.00	117.00		
Vendor SUACHA - SUMPTER ACE HARDWARE:							
4637							
98774	SUMPTER ACE HARDWARE	10/31/2020	12/01/2020	1,029.08	1,029.08	Open	N
	OCT STMT	KTYLER					12/01/2020
	592-536-740-000	SILICONE		15.46			
	101-265-740-000	MAGNET		6.83			
	592-537-740-000	AUTO THREADLOCKER		16.18			
	101-265-740-000	PEST REMOVAL PRODUCTS		90.43			
	101-265-740-000	PEST REMOVAL PRODUCTS		32.71			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 20/23

Inv Num Inv Ref#	Vendor Description	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
	GL Distribution							
	592-537-740-000	LIGHT BULBS		77.16				
	101-301-743-000	PAINT SUPPLIES FOR OFFICES		83.07				
	592-537-740-000	WILDBROOK LS FLOODLIGHT		40.49				
	101-265-740-000	PEST REMOVAL SUPPLIES		63.84				
	592-536-740-000	MOUNT TIES		25.18				
	592-536-740-000	WILDBROOK LS FLOODLIGHT		6.99				
	101-265-740-000	WORKLIGHT		57.58				
	592-537-740-000	LOPPER TELESCOPIC POWER		29.69				
	101-301-743-000	PAINT SUPPLIES FOR OFFICES		45.76				
	592-536-740-000	PUMP KIT POWER DRILL		27.82				
	101-265-933-000	T-2 TRLR REPAIRS		43.03				
	101-265-933-000	T-2 TRLR REPAIRS		27.07				
	592-536-740-000	EXTENSION CORD		7.19				
	101-265-933-000	T-2 TRLR REPAIRS		58.40				
	101-301-743-000	PAINT SUPPLIES FOR OFFICES		69.23				
	592-537-740-000	PADLOCK		12.59				
	101-265-740-000	SOCKETS/ADAPTERS		17.23				
	592-537-740-000	CM FILTER RED PUSH ON		17.99				
	592-536-740-000	GLOVES/BLADES		44.97				
	101-265-740-000	PAINT SUPPLIES		36.32				
	592-536-740-000	GLOVES		17.99				
	101-265-740-000	STATION 3 TOOLS		45.91				
	101-265-740-000	TUBING		11.97				
	Total for vendor SUACHA - SUMPTER ACE HARDWARE:			1,029.08	1,029.08			

Vendor SWCUEM - THE SWEATSHOP CUSTOM EMBROIDERY:

1828								
98753	THE SWEATSHOP CUSTOM EMBROIDERY	11/08/2020	12/01/2020	720.00	720.00	Open	N	
	(9) EMBROIDERED JOB SHIRTS	KTYLER					12/01/2020	
	101-336-741-000	(9) EMBROIDERED JOB SHIRTS		720.00				
	Total for vendor SWCUEM - THE SWEATSHOP CUSTOM EMBROIDERY:			720.00	720.00			

Vendor TNTTRE - TNT TREE SERVICE INC:

346998								
98745	TNT TREE SERVICE INC	11/24/2020	12/01/2020	700.00	700.00	Open	N	20-0450
	TREE BRANCH REMOVAL @ PICKLEBALL	KTYLER					12/01/2020	
	101-265-931-000	LARGE BRANCH REMOVAL		700.00				
	Total for vendor TNTTRE - TNT TREE SERVICE INC:			700.00	700.00			

Vendor VABUST - VAN BUREN STEEL:

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 21/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
1016324 98754	VAN BUREN STEEL T-2 RAMP REPAIRS 101-265-933-000	10/27/2020 KTYLER	12/01/2020	375.00 375.00	375.00	Open	N 12/01/2020	
Total for vendor VABUST - VAN BUREN STEEL:				375.00	375.00			
Vendor VANASS - VANASSCHE CONSTRUCTION INC:								
5138 98755	VANASSCHE CONSTRUCTION INC DEBRIS CLEANUP @ 11048 JACKSON 101-329-819-000	07/30/2020 KTYLER	12/01/2020	350.00 350.00	350.00	Open	N 12/01/2020	
5248 98756	VANASSCHE CONSTRUCTION INC DEBRIS CLEANUP @ 42746 ALBA 101-329-819-000	11/03/2020 KTYLER	12/01/2020	200.00 200.00	200.00	Open	N 12/01/2020	
Total for vendor VANASS - VANASSCHE CONSTRUCTION INC:				550.00	550.00			
Vendor WADTRI - WADE TRIM :								
2019556 98796	WADE TRIM 10.30 BECK RD BYPASS VALVE/AUTOM 247-000-001-000	11/13/2020 KTYLER	12/01/2020	1,195.00 1,195.00	1,195.00	Open	N 12/01/2020	
Total for vendor WADTRI - WADE TRIM :				1,195.00	1,195.00			
Vendor WACORD - WAYNE COUNTY REGISTER OF DEEDS:								
AGREEMENT 98806	WAYNE COUNTY REGISTER OF DEEDS RECORD STORMWATER MAINT AGREE U. 101-370-900-000	11/20/2020 KTYLER	12/01/2020	51.00 51.00	51.00	Open	N 12/01/2020	
AGREEMENT 98807	WAYNE COUNTY REGISTER OF DEEDS RECORD STORMWATER MAINT AGREE BV 101-370-900-000	11/20/2020 KTYLER	12/01/2020	36.00 36.00	36.00	Open	N 12/01/2020	
Total for vendor WACORD - WAYNE COUNTY REGISTER OF DEEDS:				87.00	87.00			
Vendor WITMER - WITMER PUBLIC SAFETY GROUP :								
2070486 98757	WITMER PUBLIC SAFETY GROUP FIRE HYDRANT TOOLS	10/15/2020 KTYLER	12/01/2020	243.26	243.26	Open	N 12/01/2020	

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 22/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
	101-336-741-000	FIRE HYDRANT TOOLS		243.26			
2070486.001							
98758	WITMER PUBLIC SAFETY GROUP	10/21/2020	12/01/2020	228.10	228.10	Open	N
	FIRE HYDRANT PARTS	KTYLER					12/01/2020
	101-336-741-000	FIRE HYDRANT PARTS		228.10			
	Total for vendor WITMER - WITMER PUBLIC SAFETY GROUP :			<u>471.36</u>	<u>471.36</u>		

Vendor ZIPREC - ZIPRECRUITER :

8955026							
98759	ZIPRECRUITER	11/08/2020	12/01/2020	957.00	957.00	Open	N
	JOB POSTINGS FOR TWP	KTYLER					12/01/2020
	101-101-956-000	JOB POSTINGS FOR TWP		957.00			
	Total for vendor ZIPREC - ZIPRECRUITER :			<u>957.00</u>	<u>957.00</u>		

# of Invoices:	135	# Due:	135	Totals:	387,436.97	387,436.97
# of Credit Memos:	0	# Due:	0	Totals:	<u>0.00</u>	<u>0.00</u>
Net of Invoices and Credit Memos:					<u>387,436.97</u>	<u>387,436.97</u>

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 23/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
GL Distribution								
--- TOTALS BY FUND ---								
	101 - General Fund			153,370.79	153,370.79			
	247 - DDA Fund			7,736.75	7,736.75			
	251 - LDFA Fund			20,510.45	20,510.45			
	266 - State Forfeiture Fund			188.95	188.95			
	592 - Water/Sewer Fund			205,630.03	205,630.03			
--- TOTALS BY DEPT/ACTIVITY ---								
	000 -			84,765.56	84,765.56			
	101 - Township Board			3,622.00	3,622.00			
	191 - Election Department			2,000.00	2,000.00			
	210 - Attorney Fees			10,885.81	10,885.81			
	228 - IT Department			690.00	690.00			
	248 - General Office			1,274.54	1,274.54			
	265 - Building & Grounds			40,591.17	40,591.17			
	301 - Police Department			30,399.84	30,399.84			
	325 - Dispatch			9,544.09	9,544.09			
	329 - Ordinance Enforcement			2,490.38	2,490.38			
	336 - Fire Department			9,326.44	9,326.44			
	370 - Building/Planning Dept.			19,219.40	19,219.40			
	536 - Water Department			54,413.82	54,413.82			
	537 - Sewer Department			113,492.92	113,492.92			
	691 - Recreation Dept			207.00	207.00			
	692 - Seniors Dept			92.00	92.00			
	718 - Park & Lake Dept			4,422.00	4,422.00			

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
Vendor 911TRA - 911 TRAINING INSTITUTE:								
10282								
98673	911 TRAINING INSTITUTE	09/03/2020	12/01/2020	359.00	359.00	Open	N	
	WEISBECKER 9.16 SURVIVE & THRIVE KTYLER						12/01/2020	
	101-325-861-000 WEISBECKER 9.16 SURVIVE & THRIVE VIRT			359.00				
10327								
98674	911 TRAINING INSTITUTE	11/02/2020	12/01/2020	229.00	229.00	Open	N	
	REA 11.3 POWER OF PEER SUPP VIRT KTYLER						12/01/2020	
	101-325-861-000 REA 11.3 POWER OF PEER SUPP VIRTUAL			229.00				
	Total for vendor 911TRA - 911 TRAINING INSTITUTE:			588.00	588.00			
Vendor DELIEM - A DESIGN LINE EMBROIDERY:								
31032								
98676	A DESIGN LINE EMBROIDERY	10/30/2020	12/01/2020	1,273.14	1,273.14	Open	N	
	DISPATCH UNIFORMS KTYLER						12/01/2020	
	101-325-741-000 DISPATCH UNIFORMS			1,273.14				
	Total for vendor DELIEM - A DESIGN LINE EMBROIDERY:			1,273.14	1,273.14			
Vendor ABBDOO - ABBEY DOOR:								
8703								
98677	ABBEEY DOOR	10/27/2020	12/01/2020	314.00	314.00	Open	N	
	POLICE SALLEY PORT DOOR WEST KTYLER						12/01/2020	
	101-265-931-000 POLICE SALLEY PORT DOOR WEST			314.00				
8704								
98678	ABBEEY DOOR	10/27/2020	12/01/2020	595.00	595.00	Open	N	
	STATION 3 GARAGE DOOR KTYLER						12/01/2020	
	101-265-931-000 STATION 3 GARAGE DOOR			595.00				
	Total for vendor ABBDOO - ABBEY DOOR:			909.00	909.00			
Vendor SCHALE - ALEX SCHULZ:								
TRAVEL								
98789	ALEX SCHULZ	11/18/2020	12/01/2020	36.11	36.11	Open	N	
	11.10-12 TRAIN THE TRAINER MEALS KTYLER						12/01/2020	
	101-301-861-000 11.10-12 TRAIN THE TRAINER MEALS			36.11				
	Total for vendor SCHALE - ALEX SCHULZ:			36.11	36.11			
Vendor ALLBRO - ALLIE BROTHERS:								

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 2/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
81213 98679	ALLIE BROTHERS VELEVSKA UNIFORMS 101-301-741-000	10/29/2020 KTYLER	12/01/2020	109.98 109.98	109.98	Open	N 12/01/2020	
81258 98680	ALLIE BROTHERS MCINALLY UNIFORMS 101-336-741-000	10/30/2020 KTYLER	12/01/2020	129.99 129.99	129.99	Open	N 12/01/2020	
81387 98790	ALLIE BROTHERS J.WRIGHT UNIFORMS 101-301-741-000	11/11/2020 KTYLER	12/01/2020	481.92 481.92	481.92	Open	N 12/01/2020	
81369 98791	ALLIE BROTHERS UNIFORM SET FOR FULL TIME FIRE F 101-336-741-000	11/11/2020 KTYLER	12/01/2020	597.46 597.46	597.46	Open	N 12/01/2020	20-0323
Total for vendor ALLBRO - ALLIE BROTHERS:				1,319.35	1,319.35			
Vendor ALLALA - ALLSTAR ALARM LLC:								
295370 98770	ALLSTAR ALARM LLC 12.1-2.28.21 FIRE SYS INSP/ALARM 101-265-931-000	11/01/2020 KTYLER	12/01/2020	246.00 246.00	246.00	Open	N 12/01/2020	
Total for vendor ALLALA - ALLSTAR ALARM LLC:				246.00	246.00			
Vendor AMEINT - AMERICAN INTERIORS:								
31146 98766	AMERICAN INTERIORS PD FURNITURE -- INTERVIEW ROOM 101-265-970-000	11/10/2020 KTYLER	12/01/2020	1,552.11 1,552.11	1,552.11	Open	N 12/01/2020	20-0396
31144 98767	AMERICAN INTERIORS PD FURNITURE -- DETECTIVE COPY P 101-265-970-000	11/10/2020 KTYLER	12/01/2020	7,753.46 7,753.46	7,753.46	Open	N 12/01/2020	20-0397
31145 98768	AMERICAN INTERIORS PD FURNITURE -- DETECTIVE WORKST 101-265-970-000	11/10/2020 KTYLER	12/01/2020	15,902.71 15,902.71	15,902.71	Open	N 12/01/2020	20-0398

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 3/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
31143 98769	AMERICAN INTERIORS PD FURNITURE - DET. BAZZY OFFICE 101-265-970-000	11/10/2020 KTYLER	12/01/2020	5,402.42 5,402.42	5,402.42	Open	N 12/01/2020	20-0399
31142 98793	AMERICAN INTERIORS VBT HALLWAY BENCHES 101-265-970-000	11/10/2020 KTYLER	12/01/2020	3,779.46 3,779.46	3,779.46	Open	N 12/01/2020	20-0471
Total for vendor AMEINT - AMERICAN INTERIORS:				34,390.16	34,390.16			
Vendor APESOF - APEX SOFTWARE:								
311559 98765	APEX SOFTWARE APEX 7 SURFACE PRO STEVENSON/DOR 101-101-955-000	11/16/2020 KTYLER	12/01/2020	1,860.00 1,785.00 75.00	1,860.00	Open	N 12/01/2020	20-0466
Total for vendor APESOF - APEX SOFTWARE:				1,860.00	1,860.00			
Vendor ATCFOR - ATCHINSON FORD SALES INC:								
260447 98675	ATCHINSON FORD SALES INC 172 RTR WHEEL BEARING/PVC VALVE 101-301-860-000	10/22/2020 KTYLER	12/01/2020	817.92 817.92	817.92	Open	N 12/01/2020	
Total for vendor ATCFOR - ATCHINSON FORD SALES INC:				817.92	817.92			
Vendor BASIC - BASIC:								
10-571735 98780	BASIC 2021 FSA RENEW FEE/EMPLOYEE MAIL 101-101-956-000	11/17/2020 KTYLER	12/01/2020	715.00 715.00	715.00	Open	N 12/01/2020	
Total for vendor BASIC - BASIC:				715.00	715.00			
Vendor BECBOY - BECK & BOYS CUSTOM APPAREL:								
13386 98686	BECK & BOYS CUSTOM APPAREL (5) STOCK EMB POLICE BADGES 101-301-741-000	10/23/2020 KTYLER	12/01/2020	42.50 42.50	42.50	Open	N 12/01/2020	
Total for vendor BECBOY - BECK & BOYS CUSTOM APPAREL:				42.50	42.50			

Page: 4/23

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 5/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number Post Date
83840004 98690	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/09/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	320.02 320.02	320.02	Open	N 12/01/2020
83840005 98691	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/09/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	3.12 3.12	3.12	Open	N 12/01/2020
83845370 98692	BOUND TREE MEDICAL MEDICAL SUPPLIES 101-336-740-000	11/12/2020 KTYLER MEDICAL SUPPLIES	12/01/2020	23.09 23.09	23.09	Open	N 12/01/2020
Total for vendor BOTRME - BOUND TREE MEDICAL :				346.23	346.23		

Vendor CONBRU - BRUCE CONNELL:

INSPECTOR 98771	BRUCE CONNELL NOV PLBG INSP 101-370-819-000	11/19/2020 KTYLER NOV PLBG INSP	12/01/2020	2,860.00 2,860.00	2,860.00	Open	N 12/01/2020
Total for vendor CONBRU - BRUCE CONNELL:				2,860.00	2,860.00		

Vendor BUTLON - BUTZEL LONG:

9402267 98687	BUTZEL LONG JUN LEGAL SVCS 251-000-802-000	07/17/2020 KTYLER JUN LEGAL SVCS	12/01/2020	7,249.50 7,249.50	7,249.50	Open	N 12/01/2020
9404950 98688	BUTZEL LONG JUL LEGAL SVCS 251-000-802-000	08/05/2020 KTYLER JUL LEGAL SVCS	12/01/2020	13,260.95 13,260.95	13,260.95	Open	N 12/01/2020
Total for vendor BUTLON - BUTZEL LONG:				20,510.45	20,510.45		

Vendor COMASS - CA MARKETING INC:

64499 98693	CA MARKETING INC SEPT MARKETING SVCS DDA 247-000-822-000	09/25/2020 KTYLER SEPT MARKETING SVCS DDA	12/01/2020	3,350.00 3,350.00	3,350.00	Open	N 12/01/2020
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11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 6/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
64572 98694	CA MARKETING INC VANBUREN-MI.ORG HOSTING 10/2020 101-228-817-000	11/01/2020 KTYLER	12/01/2020	690.00 690.00	690.00	Open	N 12/01/2020	
Total for vendor COMASS - CA MARKETING INC:				4,040.00	4,040.00			

Vendor CHABUS - CHAPP & BUSHEY OIL CO:

180951 98696	CHAPP & BUSHEY OIL CO FUEL 101-301-860-001 101-336-860-001 592-536-751-000 101-265-860-000 101-265-860-000	11/12/2020 KTYLER	12/01/2020	2,854.22 2,026.50 114.17 376.76 219.77 117.02	2,854.22	Open	N 12/01/2020	
182639 98697	CHAPP & BUSHEY OIL CO DIESEL FUEL 101-336-860-001	11/12/2020 KTYLER	12/01/2020	278.12 278.12	278.12	Open	N 12/01/2020	
Total for vendor CHABUS - CHAPP & BUSHEY OIL CO:				3,132.34	3,132.34			

Vendor ROMCIT - CITY OF ROMULUS:

7759 98698	CITY OF ROMULUS NOV ANIMAL CONTROL SVCS 101-329-819-000	11/03/2020 KTYLER	12/01/2020	650.00 650.00	650.00	Open	N 12/01/2020	
Total for vendor ROMCIT - CITY OF ROMULUS:				650.00	650.00			

Vendor COMSOU - COMSOURCE:

16084 98695	COMSOURCE FD RADIO CHARGERS 101-336-741-000 101-336-741-000 101-336-741-000	10/29/2020 KTYLER	12/01/2020	1,878.75 1,275.00 575.00 28.75	1,878.75	Open	N 12/01/2020	20-0444
Total for vendor COMSOU - COMSOURCE:				1,878.75	1,878.75			

Vendor DAMASP - DAMARK MARINE SPECIALTIES:

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 7/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
4549 98701	DAMARK MARINE SPECIALTIES WINTERIZE MARINE BOAT 101-301-865-000 WINTERIZE MARINE BOAT Total for vendor DAMASP - DAMARK MARINE SPECIALTIES:	11/12/2020 KTYLER	12/01/2020	231.75 231.75 231.75	231.75 231.75	Open	N 12/01/2020	
<hr/>								
Vendor DELCOM - DELL MARKETING LP :								
10434534667 98699	DELL MARKETING LP COMPUTER FOR FIRE DEPT 101-336-741-000 OPTIPLEX 7780 AIO Total for vendor DELCOM - DELL MARKETING LP :	10/29/2020 KTYLER	12/01/2020	1,606.80 1,606.80 1,606.80	1,606.80 1,606.80	Open	N 12/01/2020	20-0445
<hr/>								
Vendor DIREIN - DIVE RESCUE INTERNATIONAL:								
INV183780 98700	DIVE RESCUE INTERNATIONAL BREATHING VALVE FOR DIVE TEAM 101-301-865-000 INTERSPIRO DIVATOR BREATHING VALVE 101-301-865-000 FREIGHT Total for vendor DIREIN - DIVE RESCUE INTERNATIONAL:	11/06/2020 KTYLER	12/01/2020	995.00 975.00 20.00 995.00	995.00 995.00	Open	N 12/01/2020	20-0441
<hr/>								
Vendor DOMVOT - DOMINION VOTING SYSTEMS INC:								
DVS137633 98782	DOMINION VOTING SYSTEMS INC ON-SITE SUPPORT-GENERAL ELECTION 101-191-727-000 ON-SITE SUPPORT-NOVEMBER ELECTION Total for vendor DOMVOT - DOMINION VOTING SYSTEMS INC:	11/17/2020 KTYLER	12/01/2020	2,000.00 2,000.00 2,000.00	2,000.00 2,000.00	Open	N 12/01/2020	20-0359
<hr/>								
Vendor DUWA - DOWNRIVER UTILITY WASTEWATER AUTH:								
0000301174 98764	DOWNRIVER UTILITY WASTEWATER AUTH NOV 2020 EXCESS FLOW 592-537-925-000 NOV 2020 EXCESS FLOW Total for vendor DUWA - DOWNRIVER UTILITY WASTEWATER AUTH:	11/01/2020 KTYLER	12/01/2020	13,845.00 13,845.00 13,845.00	13,845.00 13,845.00	Open	N 12/01/2020	
<hr/>								
Vendor DSSCOR - DSS CORPORATION:								
21141 98703	DSS CORPORATION 12.10-12.09.21 VOICE RECORD MAIN	11/16/2020 KTYLER	12/01/2020	6,600.00	6,600.00	Open	N 12/01/2020	

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 8/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized PO Number
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
101-325-819-000	12.10-12.09.21 VOICE RECORD MAINT ANN			6,600.00			
	Total for vendor DSSCOR - DSS CORPORATION:			6,600.00	6,600.00		

Vendor DUFISA - DUNDEE FIRE & SAFETY:

4975							
98788	DUNDEE FIRE & SAFETY	11/15/2020	12/01/2020	78.25	78.25	Open	N
	FIRE EQUIPMENT INSP/TEST	KTYLER					12/01/2020
101-336-933-000	FIRE EQUIPMENT INSP/TEST			78.25			
	Total for vendor DUFISA - DUNDEE FIRE & SAFETY:			78.25	78.25		

Vendor EXPTIR - EXPRESS TIRE:

39426							
98702	EXPRESS TIRE	10/13/2020	12/01/2020	1,290.38	1,290.38	Open	N
	302 BRAKES	KTYLER					12/01/2020
101-329-860-000	302 BRAKES			1,290.38			
	Total for vendor EXPTIR - EXPRESS TIRE:			1,290.38	1,290.38		

Vendor FEERIT - FEED RITE PET STORE:

2464							
98704	FEED RITE PET STORE	10/29/2020	12/01/2020	188.95	188.95	Open	N
	JASE K.9 DOG FOOD/SUPPLIES	KTYLER					12/01/2020
266-000-863-000	JASE K.9 DOG FOOD/SUPPLIES			188.95			
	Total for vendor FEERIT - FEED RITE PET STORE:			188.95	188.95		

Vendor FTCH - FISHBECK:

396316							
98705	FISHBECK	11/06/2020	12/01/2020	4,326.50	4,326.50	Open	N
	10.30 VBT/WAM	KTYLER					12/01/2020
592-536-820-000	10.30 VBT/WAM			4,326.50			
396151							
98706	FISHBECK	11/04/2020	12/01/2020	11,954.50	11,954.50	Open	N
	10.30 VBT/SAW	KTYLER					12/01/2020
592-536-820-000	10.30 VBT/SAW			11,954.50			
396716							
98707	FISHBECK	11/09/2020	12/01/2020	2,234.50	2,234.50	Open	N
	10.30 VBT/DTE PAVING	KTYLER					12/01/2020
592-000-286-000	10.30 VBT/DTE PAVING			2,234.50			

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
 EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
 UNJOURNALIZED
 OPEN
 12.01.20 VOUCHER

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
396721 98708	FISHBECK 10.30 VBT/JFFY LUBE SITE 592-000-286-000	11/09/2020 KTYLER	12/01/2020	2,394.50 2,394.50	2,394.50	Open	N 12/01/2020	
396629 98709	FISHBECK 10.30 VBT/VICTORIA ESTATES 592-000-286-000	11/09/2020 KTYLER	12/01/2020	24,497.09 24,497.09	24,497.09	Open	N 12/01/2020	
396715 98710	FISHBECK 10.30 VBT/TIP W/S 592-536-820-000	11/09/2020 KTYLER	12/01/2020	25,443.51 25,443.51	25,443.51	Open	N 12/01/2020	
396713 98711	FISHBECK 10.30 VBT/BVL SQUARE WATER MAIN 592-536-970-001	11/09/2020 KTYLER	12/01/2020	984.50 984.50	984.50	Open	N 12/01/2020	
393024 98795	FISHBECK 6.12 VBT/PROJECT PANCAKE 592-000-286-000	06/22/2020 KTYLER	12/01/2020	543.00 543.00	543.00	Open	N 12/01/2020	
Total for vendor FTCH - FISHBECK:				72,378.10	72,378.10			
Vendor GMGMK - GASIOREK, MORGAN, GRECO & MCCAULEY,:								
9829 98712	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	110.00 78.10 31.90	110.00	Open	N 12/01/2020	
9830 98713	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	2,457.50 1,744.83 712.67	2,457.50	Open	N 12/01/2020	
9831 98714	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER	12/01/2020	8,494.20 6,030.89 2,463.31	8,494.20	Open	N 12/01/2020	

11/25/2020 04:13 PM

User: KTYLER

DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
 EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
 UNJOURNALIZED
 OPEN
 12.01.20 VOUCHER

Page: 10/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
9832 98715	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	2,341.40 1,662.40 679.00	2,341.40	Open	N 12/01/2020	
9833 98716	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	475.00 337.25 137.75	475.00	Open	N 12/01/2020	
9834 98717	GASIOREK, MORGAN, GRECO & MCCAULEY OCT LEGAL SVCS 101-210-801-000 592-536-801-002	11/03/2020 KTYLER OCT LEGAL SVCS OCT LEGAL SVCS	12/01/2020	1,454.00 1,032.34 421.66	1,454.00	Open	N 12/01/2020	
Total for vendor GMGMK - GASIOREK, MORGAN, GRECO & MCCAULEY,:				15,332.10	15,332.10			

Vendor GLUS - GENERAL LINEN & UNIFORM SVCS:

312690 98718	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/01/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
313610 98719	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/08/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	25.00 25.00	25.00	Open	N 12/01/2020	
314549 98720	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/15/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	22.50 22.50	22.50	Open	N 12/01/2020	
315493 98721	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/22/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
316434 98722	GENERAL LINEN & UNIFORM SVCS CLEAN PRISONER BLANKETS 101-301-862-000	10/29/2020 KTYLER CLEAN PRISONER BLANKETS	12/01/2020	32.50 32.50	32.50	Open	N 12/01/2020	
Total for vendor GLUS - GENERAL LINEN & UNIFORM SVCS:				145.00	145.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 11/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
Vendor HARGER - GERALD HARDER, JR.:								
INSPECTOR 98761	GERALD HARDER, JR. NOV BLDG INSP 101-370-819-000	11/18/2020 KTYLER NOV BLDG INSP	12/01/2020	7,975.00 7,975.00	7,975.00 7,975.00	Open	N 12/01/2020	
Total for vendor HARGER - GERALD HARDER, JR.:				7,975.00	7,975.00			
Vendor GLWA - GREAT LAKES WATER AUTHORITY:								
300-1511-S 98777	GREAT LAKES WATER AUTHORITY SEPT IWC 592-537-924-000	10/16/2020 KTYLER SEPT IWC	12/01/2020	1,755.91 1,755.91	1,755.91	Open	N 12/01/2020	
300-1511-S 98778	GREAT LAKES WATER AUTHORITY OCT IWC 592-537-924-000	11/17/2020 KTYLER OCT IWC	12/01/2020	1,755.91 1,755.91	1,755.91	Open	N 12/01/2020	
Total for vendor GLWA - GREAT LAKES WATER AUTHORITY:				3,511.82	3,511.82			
Vendor IBAENT - IBACH ENTERPRISES LLC:								
REFUND 98724	IBACH ENTERPRISES LLC 013052-479 UNUSED PORTION OF HYD 592-000-284-000	11/10/2020 KTYLER 013052-479 UNUSED PORTION OF HYDRANT	12/01/2020	327.00 327.00	327.00	Open	N 12/01/2020	
Total for vendor IBAENT - IBACH ENTERPRISES LLC:				327.00	327.00			
Vendor J&TTOW - J&T TOWING:								
437789 98723	J&T TOWING 705 TOW TO SUPERIOR AUTO 101-265-860-000	11/06/2020 KTYLER 705 TOW TO SUPERIOR AUTO	12/01/2020	157.00 157.00	157.00	Open	N 12/01/2020	
Total for vendor J&TTOW - J&T TOWING:				157.00	157.00			
Vendor DOMJEF - JEFFREY DOMMER:								
INSPECTOR 98772	JEFFREY DOMMER NOV ELEC INSP 101-370-819-000	11/19/2020 KTYLER NOV ELEC INSP	12/01/2020	2,448.00 2,448.00	2,448.00	Open	N 12/01/2020	
Total for vendor DOMJEF - JEFFREY DOMMER:				2,448.00	2,448.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 12/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
Vendor DOUJOH - JOHN DOUGLASS, JR:								
INSPECTOR								
98779	JOHN DOUGLASS, JR	11/19/2020	12/01/2020	2,640.00	2,640.00	Open	N	
	NOV MECH INSP	KTYLER					12/01/2020	
	101-370-819-000	NOV MECH INSP		2,640.00				
	Total for vendor DOUJOH - JOHN DOUGLASS, JR:			2,640.00	2,640.00			

Vendor JOHCON - JOHNSON CONTROLS SECURITY SOLUTIONS:

35067409								
98800	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	66.19	66.19	Open	N	
	12.1-2.28.21 SECURITY W/S	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 SECURITY W/S		66.19				
35067407								
98801	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	45.45	45.45	Open	N	
	12.1-2.28.21 7563 HAGGERTY	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 7563 HAGGERTY		45.45				
35067410								
98802	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	64.98	64.98	Open	N	
	12.1-2.28.21 STATION 1	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 STATION 1		64.98				
35067411								
98803	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	122.75	122.75	Open	N	
	12.1-2.28.21 FS2	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 FS2		122.75				
35067413								
98804	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	653.97	653.97	Open	N	
	12.1-2.28.21 TWP HALL	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 TWP HALL		653.97				
35067412								
98805	JOHNSON CONTROLS SECURITY SOLUTION	11/07/2020	12/01/2020	77.39	77.39	Open	N	
	12.1-2.28.21 PARKS/REC	KTYLER					12/01/2020	
	101-265-819-000	12.1-2.28.21 PARKS/REC		77.39				
	Total for vendor JOHCON - JOHNSON CONTROLS SECURITY SOLUTIONS:			1,030.73	1,030.73			

Vendor JOHLIT - JOHNSTON ENTERPRISES:

12794								
98762	JOHNSTON ENTERPRISES	05/01/2020	12/01/2020	92.00	92.00	Open	N	
	(4) SIGNS FOR FOOD BANK SENIORS	KTYLER					12/01/2020	
	101-692-742-000	(4) SIGNS FOR FOOD BANK SENIORS		92.00				

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
	Total for vendor JOHLIT - JOHNSTON ENTERPRISES:			92.00	92.00			
Vendor KENIND - KENNEDY INDUSTRIES INC:								
620384								
98763	KENNEDY INDUSTRIES INC	09/01/2020	12/01/2020	691.50	691.50	Open	N	
	VB TWP HALL STORM STATION REPAIR KTYLER						12/01/2020	
	592-536-819-000			691.50				
	VB TWP HALL STORM STATION REPAIRS							
	Total for vendor KENIND - KENNEDY INDUSTRIES INC:			691.50	691.50			
Vendor KENCOM - KENT COMMUNICATIONS:								
210507								
98725	KENT COMMUNICATIONS	11/12/2020	12/01/2020	97.91	97.91	Open	N	
	POSTAGE FOR 2021 PERS PROP STMTS KTYLER						12/01/2020	
	101-248-728-000			97.91				
	POSTAGE FOR 2021 PERS PROP STMTS							
	Total for vendor KENCOM - KENT COMMUNICATIONS:			97.91	97.91			
Vendor MISC - LEONARD CARNAGHI:								
REFUND								
98794	LEONARD CARNAGHI	11/12/2020	12/01/2020	5,000.00	5,000.00	Open	N	
	100176 BOND @ 9273 BVL RD KTYLER						12/01/2020	
	101-000-285-000			5,000.00				
	100176 BOND @ 9273 BVL RD							
	Total for vendor MISC - LEONARD CARNAGHI:			5,000.00	5,000.00			
Vendor LOHUSU - LOWER HURON SUPPLY:								
449775								
98729	LOWER HURON SUPPLY	11/13/2020	12/01/2020	477.94	477.94	Open	N	
	JANITORIAL SUPPLIES KTYLER						12/01/2020	
	101-336-740-000			477.94				
	JANITORIAL SUPPLIES							
	Total for vendor LOHUSU - LOWER HURON SUPPLY:			477.94	477.94			
Vendor LPPOLI - LP POLICE:								
1020LP16352								
98726	LP POLICE	10/31/2020	12/01/2020	129.95	129.95	Open	N	
	OCT BACKGROUND CHECKS KTYLER						12/01/2020	
	101-301-819-000			129.95				
	OCT BACKGROUND CHECKS							
	Total for vendor LPPOLI - LP POLICE:			129.95	129.95			
Vendor DANLYL - LYLE D DANULOFF PHD:								

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 14/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
09/28/2020 98727	LYLE D DANULOFF PHD TELSCHOW PSYCH EVAL 101-325-956-000	09/28/2020 KTYLER TELSCHOW PSYCH EVAL	12/01/2020	400.00 400.00	400.00	Open	N 12/01/2020	
10/15/2020 98728	LYLE D DANULOFF PHD PAULS PSYCH EVAL 101-325-956-000	10/15/2020 KTYLER PAULS PSYCH EVAL	12/01/2020	400.00 400.00	400.00	Open	N 12/01/2020	
Total for vendor DANLYL - LYLE D DANULOFF PHD:				800.00	800.00			
Vendor MAFOSE - MARQUIS FOOD SERVICE:								
9549 98731	MARQUIS FOOD SERVICE 11.13 PRISONER MEALS 101-301-862-000	11/13/2020 KTYLER 11.13 PRISONER MEALS	12/01/2020	195.00 195.00	195.00	Open	N 12/01/2020	
Total for vendor MAFOSE - MARQUIS FOOD SERVICE:				195.00	195.00			
Vendor MCKASS - MCKENNA ASSOCIATES:								
98020-49 98797	MCKENNA ASSOCIATES OCT PRO PLNG SVCS 101-370-821-000 101-000-286-000	11/09/2020 KTYLER OCT PRO PLNG SVCS OCT PRO PLNG SVCS	12/01/2020	1,782.28 742.96 1,039.32	1,782.28	Open	N 12/01/2020	
21511-46 98798	MCKENNA ASSOCIATES OCT PRO SVCS 101-370-821-000	11/09/2020 KTYLER OCT PRO SVCS	12/01/2020	2,104.64 2,104.64	2,104.64	Open	N 12/01/2020	
21638-27 98799	MCKENNA ASSOCIATES OCT BLDG PLAN REVIEW SVCS 101-370-819-000	11/09/2020 KTYLER OCT BLDG PLAN REVIEW SVCS	12/01/2020	361.80 361.80	361.80	Open	N 12/01/2020	
Total for vendor MCKASS - MCKENNA ASSOCIATES:				4,248.72	4,248.72			
Vendor MIPOTR - MICHIGAN POLICE TRAINING:								
1290 98785	MICHIGAN POLICE TRAINING HILLEN 1.19-20/21-22 CMV CLASSES 101-000-123-000	11/17/2020 KTYLER HILLEN 1.19-20/21-22 CMV CLASSES	12/01/2020	850.00 850.00	850.00	Open	N 12/01/2020	
Total for vendor MIPOTR - MICHIGAN POLICE TRAINING:				850.00	850.00			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 15/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
Vendor MMLWCF - MML WORKERS COMP FUND:								
11261205 98730	MML WORKERS COMP FUND 3RD Q JAN-FEB-MAR WORKERS COMP I KTYLER 101-000-123-000 3RD Q JAN-FEB-MAR WORKERS COMP INSUR 592-000-123-000 3RD Q JAN-FEB-MAR WORKERS COMP INSUR Total for vendor MMLWCF - MML WORKERS COMP FUND:	11/06/2020 KTYLER	12/01/2020	19,318.00 11,590.80 7,727.20 19,318.00	19,318.00	Open	N 12/01/2020	
Vendor MR.BUBBLE - MR. BUBBLE AUTO SPA:								
OCT 2020 98732	MR. BUBBLE AUTO SPA OCT CAR WASHES POLICE 101-301-860-004 OCT CAR WASHES POLICE Total for vendor MR.BUBBLE - MR. BUBBLE AUTO SPA:	10/31/2020 KTYLER	12/01/2020	56.00 56.00 56.00	56.00	Open	N 12/01/2020	
Vendor BELNAP - NAPA AUTO PARTS OF BELLEVILLE:								
3637-828360 98734	NAPA AUTO PARTS OF BELLEVILLE FS1 CARLYLE BOOSTER PACK 101-336-931-000 FS1 CARLYLE BOOSTER PACK Total for vendor BELNAP - NAPA AUTO PARTS OF BELLEVILLE:	10/29/2020 KTYLER	12/01/2020	126.14 126.14 126.14	126.14	Open	N 12/01/2020	
Vendor NACOSE - NATURAL COMMUNITY SERVICES:								
2809 98739	NATURAL COMMUNITY SERVICES FRENCH LANDING PK MAINT 2020 NOV KTYLER 101-265-819-000 FRENCH LANDING PK MAINT 2020 NOV Total for vendor NACOSE - NATURAL COMMUNITY SERVICES:	11/13/2020 KTYLER	12/01/2020	1,000.00 1,000.00 1,000.00	1,000.00	Open	N 12/01/2020	20-0152
Vendor NOAR - NOAR TECHNOLOGIES:								
111220-PIX4D 98786	NOAR TECHNOLOGIES DRONE-BASED CRIME SCENE MAPPING/ KTYLER 101-301-861-000 DRONE-BASED CRIME SCENE MAPPING/TRAIN	11/12/2020 KTYLER	12/01/2020	4,990.00 4,990.00	4,990.00	Open	N 12/01/2020	20-0465
081820-MAP360 98787	NOAR TECHNOLOGIES CRASH/CRIME SCENE DRAWING TRAINI KTYLER 101-301-861-000 NOAR SW-MAP 360 101-301-861-000 USB KEY	11/06/2020 KTYLER	12/01/2020	4,670.00 2,495.00 50.00	4,670.00	Open	N 12/01/2020	20-0345

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 16/23

Inv Num Inv Ref#	Vendor Description	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
	GL Distribution							
	101-301-861-000	TRAINING		1,600.00				
	101-301-861-000	SURVEY TARGETS WITH MAP		525.00				
	Total for vendor NOAR - NOAR TECHNOLOGIES:			9,660.00	9,660.00			

Vendor OAKCOU - OAKLAND COUNTY TREASURERS:

FRM0002187 98735	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	1,704.25	1,704.25	Open	N 12/01/2020	
	3RD Q JUL-AUG-SEPT CLEMIS FIRE	KTYLER						
	101-336-819-000	3RD Q JUL-AUG-SEPT CLEMIS FIRE		1,704.25				
CLM0011710 98736	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	547.00	547.00	Open	N 12/01/2020	
	CLEMIS MDC PARTICIPATION FEE	KTYLER						
	101-336-819-000	CLEMIS MDC PARTICIPATION FEE		547.00				
CLM0011709 98737	OAKLAND COUNTY TREASURERS	09/30/2020	12/01/2020	12,824.22	12,824.22	Open	N 12/01/2020	
	3RD Q JUL-AUG-SEPT CLEMIS POLICE	KTYLER						
	101-301-819-000	3RD Q JUL-AUG-SEPT CLEMIS POLICE		12,824.22				
	Total for vendor OAKCOU - OAKLAND COUNTY TREASURERS:			15,075.47	15,075.47			

Vendor OLGLFL - OLD GLORY FLAGS & FLAGPOLES:

8063 98733	OLD GLORY FLAGS & FLAGPOLES	11/06/2020	12/01/2020	3,191.75	3,191.75	Open	N 12/01/2020	
	SUM TO WIN SWAPOUT	KTYLER						
	247-000-979-001	SUM TO WIN SWAPOUT		3,191.75				
	Total for vendor OLGLFL - OLD GLORY FLAGS & FLAGPOLES:			3,191.75	3,191.75			

Vendor ONDUGE - ON DUTY GEAR, LLC:

23662 98738	ON DUTY GEAR, LLC	10/29/2020	12/01/2020	1,147.00	1,147.00	Open	N 12/01/2020	
	R.BARRY BODY ARMOR/GEAR	KTYLER						
	101-301-741-000	R.BARRY BODY ARMOR/GEAR		1,147.00				
	Total for vendor ONDUGE - ON DUTY GEAR, LLC:			1,147.00	1,147.00			

Vendor PACE - PACE ANALYTICAL SERVICES:

2035389988 98748	PACE ANALYTICAL SERVICES	11/16/2020	12/01/2020	388.00	388.00	Open	N 12/01/2020	
	OCT WATER TESTING	KTYLER						
	592-536-819-000	OCT WATER TESTING		388.00				
	Total for vendor PACE - PACE ANALYTICAL SERVICES:			388.00	388.00			

Page: 17/23

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 18/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized PO Number Post Date
84958 98775	PROFESSIONAL ENGINEERING 8.8 2019-369 VBT IBT CD'S 101-718-958-000	08/21/2020 KTYLER 8.8 2019-369 VBT IBT CD'S	12/01/2020	1,650.00 1,650.00	1,650.00	Open	N 12/01/2020
85656 98776	PROFESSIONAL ENGINEERING 10.3 2020-0095 IBT VB SECTION J 101-718-958-000	10/22/2020 KTYLER 10.3 2020-0095 IBT VB SECTION J	12/01/2020	2,250.00 2,250.00	2,250.00	Open	N 12/01/2020
Total for vendor PEAINC - PROFESSIONAL ENGINEERING:				3,900.00	3,900.00		
Vendor RAFT - REGIONAL ALLIANCE FIREFIGHTER TRNG:							
5165 98750	REGIONAL ALLIANCE FIREFIGHTER TRNG MCINALLY 12.2 ORGANIZATIONAL RIS 101-336-861-000	11/02/2020 KTYLER MCINALLY 12.2 ORGANIZATIONAL RISK MGM	12/01/2020	100.00 100.00	100.00	Open	N 12/01/2020
Total for vendor RAFT - REGIONAL ALLIANCE FIREFIGHTER TRNG:				100.00	100.00		
Vendor RITTERGIS - RITTER GIS :							
2020-1383 98749	RITTER GIS OCT GIS SVCS 592-536-816-000	11/06/2020 KTYLER OCT GIS SVCS	12/01/2020	3,800.00 3,800.00	3,800.00	Open	N 12/01/2020
Total for vendor RITTERGIS - RITTER GIS :				3,800.00	3,800.00		
Vendor ROBFAR - ROBAKIEWICZ FARMS:							
11/09/20 98781	ROBAKIEWICZ FARMS 75 STRAW BALES-VB PK SLED HILL 101-718-819-000	11/09/2020 KTYLER 75 STRAW BALES-VB PK SLED HILL	12/01/2020	337.50 337.50	337.50	Open	N 12/01/2020
Total for vendor ROBFAR - ROBAKIEWICZ FARMS:				337.50	337.50		
Vendor SANMAR - SANDY'S MARINA:							
RE-ISSUE 98783	SANDY'S MARINA MARINE 1 BOAT FUEL 101-301-860-001	08/16/2020 KTYLER MARINE 1 BOAT FUEL	12/01/2020	736.92 736.92	736.92	Open	N 12/01/2020
FUEL 98784	SANDY'S MARINA MARINE 1 BOAT FUEL	10/28/2020 KTYLER	12/01/2020	115.45	115.45	Open	N 12/01/2020

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 19/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized PO Number
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
	101-301-860-001	MARINE 1 BOAT FUEL		115.45			
	Total for vendor SANMAR - SANDY'S MARINA:			852.37	852.37		
Vendor EVASET - SETH EVANS:							
REIMBURSE							
98751	SETH EVANS	10/29/2020	12/01/2020	28.61	28.61	Open	N
	PEPPER SPRAY HOLDER	KTYLER					12/01/2020
	101-301-741-000	PEPPER SPRAY HOLDER		28.61			
	Total for vendor EVASET - SETH EVANS:			28.61	28.61		
Vendor SHVUA - SOUTH HURON VALLEY UTILITY ATH:							
3617							
98752	SOUTH HURON VALLEY UTILITY ATH	11/15/2020	12/01/2020	95,942.00	95,942.00	Open	N
	DEC SEWAGE O&M	KTYLER					12/01/2020
	592-537-924-000	DEC SEWAGE O&M		95,942.00			
	Total for vendor SHVUA - SOUTH HURON VALLEY UTILITY ATH:			95,942.00	95,942.00		
Vendor SOUEQU - SOUTHEASTERN EQUIPMENT CO:							
S83451							
98792	SOUTHEASTERN EQUIPMENT CO	10/30/2020	12/01/2020	1,856.66	1,856.66	Open	N
	506 REPAIRS	KTYLER					12/01/2020
	592-536-933-000	506 REPAIRS		1,856.66			
	Total for vendor SOUEQU - SOUTHEASTERN EQUIPMENT CO:			1,856.66	1,856.66		
Vendor MIDESE - STATE OF MICHIGAN:							
RENEWAL							
98760	STATE OF MICHIGAN	11/16/2020	12/01/2020	117.00	117.00	Open	N
	POLICE (9) VEHICLE RENEWAL TABS	KTYLER					12/01/2020
	101-301-860-000	83-90-91-100-101-102-191-192-200		117.00			
	Total for vendor MIDESE - STATE OF MICHIGAN:			117.00	117.00		
Vendor SUACHA - SUMPTER ACE HARDWARE:							
4637							
98774	SUMPTER ACE HARDWARE	10/31/2020	12/01/2020	1,029.08	1,029.08	Open	N
	OCT STMT	KTYLER					12/01/2020
	592-536-740-000	SILICONE		15.46			
	101-265-740-000	MAGNET		6.83			
	592-537-740-000	AUTO THREADLOCKER		16.18			
	101-265-740-000	PEST REMOVAL PRODUCTS		90.43			
	101-265-740-000	PEST REMOVAL PRODUCTS		32.71			

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 20/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
	GL Distribution							
592-537-740-000	LIGHT BULBS			77.16				
101-301-743-000	PAINT SUPPLIES FOR OFFICES			83.07				
592-537-740-000	WILDBROOK LS FLOODLIGHT			40.49				
101-265-740-000	PEST REMOVAL SUPPLIES			63.84				
592-536-740-000	MOUNT TIES			25.18				
592-536-740-000	WILDBROOK LS FLOODLIGHT			6.99				
101-265-740-000	WORKLIGHT			57.58				
592-537-740-000	LOPPER TELESCOPIC POWER			29.69				
101-301-743-000	PAINT SUPPLIES FOR OFFICES			45.76				
592-536-740-000	PUMP KIT POWER DRILL			27.82				
101-265-933-000	T-2 TRLR REPAIRS			43.03				
101-265-933-000	T-2 TRLR REPAIRS			27.07				
592-536-740-000	EXTENSION CORD			7.19				
101-265-933-000	T-2 TRLR REPAIRS			58.40				
101-301-743-000	PAINT SUPPLIES FOR OFFICES			69.23				
592-537-740-000	PADLOCK			12.59				
101-265-740-000	SOCKETS/ADAPTERS			17.23				
592-537-740-000	CM FILTER RED PUSH ON			17.99				
592-536-740-000	GLOVES/BLADES			44.97				
101-265-740-000	PAINT SUPPLIES			36.32				
592-536-740-000	GLOVES			17.99				
101-265-740-000	STATION 3 TOOLS			45.91				
101-265-740-000	TUBING			11.97				
Total for vendor SUACHA - SUMPTER ACE HARDWARE:				1,029.08	1,029.08			

Vendor SWCUEM - THE SWEATSHOP CUSTOM EMBROIDERY:

1828								
98753	THE SWEATSHOP CUSTOM EMBROIDERY	11/08/2020	12/01/2020	720.00	720.00	Open	N	
	(9) EMBROIDERED JOB SHIRTS	KTYLER					12/01/2020	
	101-336-741-000	(9) EMBROIDERED JOB SHIRTS		720.00				
Total for vendor SWCUEM - THE SWEATSHOP CUSTOM EMBROIDERY:				720.00	720.00			

Vendor TNTTRE - TNT TREE SERVICE INC:

346998								
98745	TNT TREE SERVICE INC	11/24/2020	12/01/2020	700.00	700.00	Open	N	20-0450
	TREE BRANCH REMOVAL @ PICKLEBALL	KTYLER					12/01/2020	
	101-265-931-000	LARGE BRANCH REMOVAL		700.00				
Total for vendor TNTTRE - TNT TREE SERVICE INC:				700.00	700.00			

Vendor VABUST - VAN BUREN STEEL:

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 21/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date	PO Number
1016324 98754	VAN BUREN STEEL T-2 RAMP REPAIRS 101-265-933-000	10/27/2020 KTYLER	12/01/2020	375.00 375.00	375.00	Open	N 12/01/2020	
Total for vendor VABUST - VAN BUREN STEEL:				375.00	375.00			
Vendor VANASS - VANASSCHE CONSTRUCTION INC:								
5138 98755	VANASSCHE CONSTRUCTION INC DEBRIS CLEANUP @ 11048 JACKSON 101-329-819-000	07/30/2020 KTYLER	12/01/2020	350.00 350.00	350.00	Open	N 12/01/2020	
5248 98756	VANASSCHE CONSTRUCTION INC DEBRIS CLEANUP @ 42746 ALBA 101-329-819-000	11/03/2020 KTYLER	12/01/2020	200.00 200.00	200.00	Open	N 12/01/2020	
Total for vendor VANASS - VANASSCHE CONSTRUCTION INC:				550.00	550.00			
Vendor WADTRI - WADE TRIM :								
2019556 98796	WADE TRIM 10.30 BECK RD BYPASS VALVE/AUTOM 247-000-001-000	11/13/2020 KTYLER	12/01/2020	1,195.00 1,195.00	1,195.00	Open	N 12/01/2020	
Total for vendor WADTRI - WADE TRIM :				1,195.00	1,195.00			
Vendor WACORD - WAYNE COUNTY REGISTER OF DEEDS:								
AGREEMENT 98806	WAYNE COUNTY REGISTER OF DEEDS RECORD STORMWATER MAINT AGREE U. 101-370-900-000	11/20/2020 KTYLER	12/01/2020	51.00 51.00	51.00	Open	N 12/01/2020	
AGREEMENT 98807	WAYNE COUNTY REGISTER OF DEEDS RECORD STORMWATER MAINT AGREE BV 101-370-900-000	11/20/2020 KTYLER	12/01/2020	36.00 36.00	36.00	Open	N 12/01/2020	
Total for vendor WACORD - WAYNE COUNTY REGISTER OF DEEDS:				87.00	87.00			
Vendor WITMER - WITMER PUBLIC SAFETY GROUP :								
2070486 98757	WITMER PUBLIC SAFETY GROUP FIRE HYDRANT TOOLS	10/15/2020 KTYLER	12/01/2020	243.26	243.26	Open	N 12/01/2020	

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 22/23

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date	PO Number
	101-336-741-000	FIRE HYDRANT TOOLS		243.26				
2070486.001 98758	WITMER PUBLIC SAFETY GROUP FIRE HYDRANT PARTS 101-336-741-000	10/21/2020 KTYLER	12/01/2020	228.10	228.10	Open	N 12/01/2020	
	FIRE HYDRANT PARTS			228.10				
	Total for vendor WITMER - WITMER PUBLIC SAFETY GROUP :			<u>471.36</u>	<u>471.36</u>			

Vendor ZIPREC - ZIPRECRUITER :

8955026 98759	ZIPRECRUITER JOB POSTINGS FOR TWP 101-101-956-000	11/08/2020 KTYLER	12/01/2020	957.00	957.00	Open	N 12/01/2020	
	JOB POSTINGS FOR TWP			957.00				
	Total for vendor ZIPREC - ZIPRECRUITER :			<u>957.00</u>	<u>957.00</u>			

# of Invoices:	135	# Due:	135	Totals:	387,436.97	387,436.97
# of Credit Memos:	0	# Due:	0	Totals:	<u>0.00</u>	<u>0.00</u>
Net of Invoices and Credit Memos:					<u>387,436.97</u>	<u>387,436.97</u>

11/25/2020 04:13 PM
User: KTYLER
DB: Van Buren Twp

INVOICE REGISTER REPORT FOR VAN BUREN TOWNSHIP
EXP CHECK RUN DATES 12/01/2020 - 12/01/2020
UNJOURNALIZED
OPEN
12.01.20 VOUCHER

Page: 23/23

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized	PO Number
Inv Ref#	Description	Entered By					Post Date	
GL Distribution								
--- TOTALS BY FUND ---								
	101 - General Fund			153,370.79	153,370.79			
	247 - DDA Fund			7,736.75	7,736.75			
	251 - LDFA Fund			20,510.45	20,510.45			
	266 - State Forfeiture Fund			188.95	188.95			
	592 - Water/Sewer Fund			205,630.03	205,630.03			
--- TOTALS BY DEPT/ACTIVITY ---								
	000 -			84,765.56	84,765.56			
	101 - Township Board			3,622.00	3,622.00			
	191 - Election Department			2,000.00	2,000.00			
	210 - Attorney Fees			10,885.81	10,885.81			
	228 - IT Department			690.00	690.00			
	248 - General Office			1,274.54	1,274.54			
	265 - Building & Grounds			40,591.17	40,591.17			
	301 - Police Department			30,399.84	30,399.84			
	325 - Dispatch			9,544.09	9,544.09			
	329 - Ordinance Enforcement			2,490.38	2,490.38			
	336 - Fire Department			9,326.44	9,326.44			
	370 - Building/Planning Dept.			19,219.40	19,219.40			
	536 - Water Department			54,413.82	54,413.82			
	537 - Sewer Department			113,492.92	113,492.92			
	691 - Recreation Dept			207.00	207.00			
	692 - Seniors Dept			92.00	92.00			
	718 - Park & Lake Dept			4,422.00	4,422.00			

Charter Township of Van Buren

Agenda Item: _____

REQUEST FOR BOARD ACTION

BOARD MEETING
DECEMBER 1, 2020

Consent Agenda X

New Business

Unfinished Business

Public Hearing

ITEM (SUBJECT)	Re-appointments of Amos Grissett, John Hasse and Aaron Sellers to the Board of Zoning Appeals
DEPARTMENT	
PRESENTER	
PHONE NUMBER	734-699-8900
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	

Agenda topic

ACTION REQUESTED	
To consider approval of the re-appointments of Amos Grissett and John Hasse to the Board of Zoning Appeals with a term to expire 12-01-2023.	
To consider the approval of the re-appointment of Aaron Sellers to the Board of Zoning Appeals with a term to expire 9-01-2023.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
BUDGET IMPLICATION	
IMPLEMENTATION NEXT STEP	
DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	
ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	None
APPROVAL OF SUPERVISOR	

Charter Township of Van Buren

REQUEST FOR BOARD ACTION

Agenda Item: _____

WS / BOARD MEETING DATE: 11/17/20

1ST READING: 11/17/20

2ND READING: 12/1/20

Consent Agenda _____

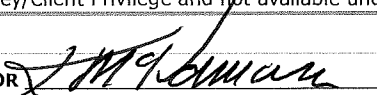
New Business X

Unfinished Business _____

Public Hearing _____

ITEM (SUBJECT)	To consider the approval of the first and second reading of Ordinance #11-17-20(1) to limit medical marijuana caregiver activities authorized under Michigan Initiated Law 1 of 2008. The amendments will be to Section 2.102 – Definitions, specific terms and Article 7 – general provisions.
DEPARTMENT	Planning & Economic Development
PRESENTER	Dan Power – Director of Planning and Economic Development
PHONE NUMBER	734-699-8913
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Angela Mannarino – Van Buren Township Attorney Matthew Best – Director of Public Services Elizabeth Renaud, Executive Assistant Public Services

Agenda topic

ACTION REQUESTED	
To consider the approval of the first and second reading of Ordinance #11-17-20(1) to limit medical marijuana caregiver activities authorized under Michigan Initiated Law 1 of 2008. The amendments will be to Section 2.102 – Definitions, specific terms and Article 7 – general provisions.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
Please see attached information.	
BUDGET IMPLICATION	None
IMPLEMENTATION NEXT STEP	After 1 st and 2 nd reading a notice of adoption will be published in the newspaper of record.
DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	Approval
ATTORNEY RECOMMENDATION	N/A
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	



MEMO

TO: Van Buren Township Board of Trustees

FROM: Dan Power– Director of Planning and Economic Development

RE: Medical Marijuana Caregiver Limits – Zoning Ordinance Text Amendments

DATE: November 10, 2020

The Van Buren Township Board of Trustees is being asked to consider proposed amendments to limit medical Marijuana caregiver activities authorized under Michigan Initiated Law 1 of 2008. The amendments will be to Section 2.102 – Definitions, specific terms and Article 7 – general provisions. The proposed amendments were recommended by the Planning Commission for adoption by the Board of Trustees in a regular meeting on October 14, 2020.

Van Buren Township has opted out of, or prohibited, certain Marijuana land uses under the following State of Michigan Acts or Laws:

- Medical Marijuana facilities land uses identified in the Medical Marijuana Facilities Licensing Act (MMFLA) (PA 281 of 2016) and
- Recreational Marijuana land uses identified in the Michigan Regulation and Taxation of Marijuana Act (Michigan Initiated Law 1 of 2018)

Under a more long-standing state law, the Michigan Medical Marijuana Act (MMMA) (Michigan Initiated Law 1 of 2008), medical Marijuana caregiver activities as described in that law are permitted throughout the State of Michigan, including in Van Buren Township. A recent Michigan State Supreme Court decision, *DeRuiter v. Township of Byron (2020)*, holds that the MMMA does not nullify a municipality's inherent authority to regulate land use under the Michigan Zoning Enabling Act (PA 110 of 2006). Based on this ruling, municipalities in Michigan may limit the land use aspect of medical Marijuana caregiver activities. Recognizing this, the Township seeks to provide a framework for medical Marijuana caregiving land use. The Township's Public Services staff have worked with the Township Attorney and public safety officials to craft an ordinance that meets key objectives for public safety, health and welfare within the limits of State law. The proposed Zoning Ordinance text amendments include the following components:

- It will be permitted as a home occupation and an accessory use of dwelling units;
- It will not be permitted in non-residential properties;
- One (1) caregiver may operate per dwelling;
- Medical Marijuana cultivation and other use by registered caregivers may occupy up to 20% of the floor area of a dwelling, not to exceed 300 square feet;
- Medical Marijuana facility land uses authorized in the State of Michigan by PA 281 of 2016 remain prohibited; and
- Recreational Marijuana land uses authorized in the State of Michigan by Michigan Initiated Law 1 of 2018 remain prohibited.

The following page of this packet includes a table demonstrating the current and proposed regulations in greater detail. The subsequent pages include the proposed ordinance text.

The Township Attorney will be present at the Board of Trustees meeting on November 17th to review these proposed Zoning Ordinance text amendments. I look forward to assisting with this discussion. Thank you for your consideration.

Sincerely,



Dan Power, AICP
Planning and Economic Development Director
Public Services Department
Charter Township of Van Buren

CC: David F. Greco, Esq. – Gasiorek, Morgan, Greco, McCauley & Kotzian, P.C. -
Van Buren Charter Township Attorney
Jason Wright – Van Buren Charter Township Police Chief
Greg Laurain – Van Buren Charter Township Public Safety Director
Matthew Best, M.S. - Public Services Director, Van Buren Charter Township
Vidya Krishnan – Van Buren Charter Township Principal Planner / Planning
Consultant – McKenna Associates

Land Use or Activity	Current regulation	Proposed regulation
Marijuana cultivation or other use under the Michigan Medical Marijuana Act (MMMA) (Michigan Initiated Law 1 of 2008) in non-residential sites	No limits except as imposed under MMMA	Prohibited
Marijuana cultivation or other use under MMMA as a principal use in a building or property		Must be accessory use and home occupation
Marijuana cultivation or other use under MMMA – maximum building or property coverage		20% of building or 300-sq. ft. area, whichever is lower (regardless of # of plants)
Marijuana facilities including medical marihuana growers ¹ , processors, provisioning centers, secure transporters as defined under PA 281 of 2016 (MMFLA)	Prohibited	Prohibited
Marijuana establishments including marihuana growers ² , marihuana safety compliance facility, marihuana processor, marihuana microbusiness, marihuana retailer, marihuana secure transporter, or any other type of marihuana-related businesses authorized under Michigan Initiated Law 1 of 2018 (MRTMA)	Prohibited	Prohibited

¹ Defined by PA 281 of 2016 as *a licensee that is a commercial entity located in this state that cultivates, dries, trims, or cures and packages marihuana for sale to a processor, provisioning center, or another grower.*

² Defined by Michigan Initiated Law 1 of 2018 as *a person licensed to cultivate marihuana and sell or otherwise transfer marihuana to marihuana establishments.*

**CHARTER TOWNSHIP OF VAN BUREN
PLANNING COMMISSION
REMOTE PUBLIC HEARING**

Notice is hereby given that the Charter Township of Van Buren Planning Commission will hold a public hearing on **October 14, 2020 at 7:30 p.m.** Pursuant to the State of Michigan Governor's Executive Orders, this hearing will take place electronically due to health concerns associated with COVID-19. The Planning Commission will consider the following zoning ordinance amendments:

Zoning Ordinance Text Amendments: Proposed amendments to limit medical marijuana caregiver activities authorized under Michigan Initiated Law 1 of 2008. The amendments will be to Section 2.102 – Definitions, specific terms and Article 7 – general provisions.

Members of the public may access the agenda materials via the Township website – www.vanburen-mi.org beginning **October 9, 2020**. On this website, members of the public will also gain access to **means of participating in the electronic meeting**, including a unique Zoom weblink and dial-in phone number with a meeting ID for meeting videoconference or teleconference access. The meeting will be available to view live on the Van Buren Township YouTube Channel which can be reached from the live meeting link located on the Van Buren Township website home page (www.vanburen-mi.org). Closed captioning will be available after YouTube fully renders meeting video.

A complete **procedure for public comment by electronic means** is provided on a guide which is accessible on the Van Buren Township website (www.vanburen-mi.org). Participants may also choose to submit written comments that will be read into record during public comment by the Chairperson. Submit any written comments via e-mail to dpower@vanburen-mi.org by **Noon, Tuesday, October 13, 2020**, which is the day before the meeting. Members of the public may also contact dpower@vanburen-mi.org to be connected with members of the Planning Commission prior to the meeting by e-mail.

To comply with the Americans with Disabilities Act (ADA), any citizen requesting accommodation to attend a meeting, and/or to obtain this notice in alternate formats, please contact the Clerk's Office at 734.699.8900 extension 9205.

Posted: September 18, 2020
Published: September 24, 2020

**CHARTER TOWNSHIP OF VAN BUREN
PLANNING COMMISSION - VIRTUAL MEETING ON ZOOM
October 14, 2020
MINUTES**

Prior to the start of the meeting, the public was given instructions on how to take part in the meeting.

Chairperson Thompson called the meeting to order at 7:31 p.m.

ROLL CALL:

Present: Atchinson, Budd, Boynton, Jahr, Franzoi and Thompson.

Excused: Kelley.

Staff: Director Power, Director Best and Secretary Harman.

Planning Representatives: McKenna Associate, Vidya Krishnan.

Applicant(s) in Attendance: Township Attorney Dave Greco, Nick Smarsch and Tommy Hennigan of Event Permits, LLC.

Audience: Six (6)

APPROVAL OF AGENDA:

Motion Boynton, Jahr second to approve the agenda of October 14, 2020 as presented.

Roll Call:

Yeas: Franzoi, Jahr, Boynton, Atchinson, Budd and Thompson.

Nays: None.

Absent: Kelley.

Motion Carried.

APPROVAL OF MINUTES:

Motion Boynton, Franzoi second to approve the regular meeting minutes of September 23, 2020 as presented.

Roll Call:

Yeas: Budd, Atchinson, Boynton, Jahr, Franzoi and Thompson.

Nays: None.

Absent: Kelley.

Motion Carried.

PUBLIC HEARING:

ITEM #1: MEDICAL MARIJUANA CAREGIVER ZONING ORDINANCE AMENDMENTS.

**PROPOSED AMENDMENTS TO LIMIT MEDICAL MARIJUANA CAREGIVER
ACTIVITIES AUTHORIZED UNDER MICHIGAN INITIATED LAW 1 OF 2008. THE
AMENDMENTS WILL BE TO SECTION 2.102 – DEFINITIONS, SPECIFIC TERMS AND
ARTICLE 7 – GENERAL PROVISIONS.**

Motion Boynton, Atchinson second to open the public hearing.

Roll Call:

Yeas: Jahr, Boynton, Atchinson, Budd, Franzoi and Thompson.

Nays: None.

Absent: Kelley.

Motion Carried.

Director Power gave a brief overview of the proposed amendments. The Township is considering land use regulations with respect to the Michigan Medical Marijuana Act (MMMA), Michigan Law 1 of 2008. This has been a collaborative discussion with council and township staff from both the public safety and public services departments. The Township Attorney Dave Greco will provide further discussion under the New Business action item.

No comments from the Commission or the audience.

Motion Boynton, Jahr second to close the public hearing.

Roll Call:

Yeas: Franzoi, Jahr, Boynton, Atchinson, Budd and Thompson.

Nays: None.

Absent: Kelley.

Motion Carried.

NEW BUSINESS:

ITEM #1: RECOMMENDATION: MEDICAL MARIJUANA CAREGIVER ZONING ORDINANCE AMENDMENTS.

PROPOSED AMENDMENTS TO LIMIT MEDICAL MARIJUANA CAREGIVER ACTIVITIES AUTHORIZED UNDER MICHIGAN INITIATED LAW 1 OF 2008. THE AMENDMENTS WILL BE TO SECTION 2.102 – DEFINITIONS, SPECIFIC TERMS AND ARTICLE 7 – GENERAL PROVISIONS.

Township Attorney Dave Greco gave the presentation. Attorney Greco provided a brief history of the Michigan Medical Marijuana Act (MMMA) passed in 2008, the Township has opted out for both commercial and recreational uses. The Zoning Ordinance text amendment is to regulate the medical marijuana caregiver by limiting caregiver activity to residential areas and prohibiting them from commercial areas within the Township. A caregiver can be a user and harvest for themselves and up to five (5) patients, with twelve (12) plants per patient. Attorney Greco provided information from Byron Township which passed a local Zoning Ordinance in which the medical marijuana caregiver is limited to a home occupation and is prohibited from commercial buildings. The ordinance also limits the allowable space. Byron Township was having a problem with caregivers purchasing homes and not living in them and/or growing in the yard. The

Michigan Supreme Court ruled in favor of Byron Township and concluded the specific regulations are legal and enforceable. The proposed Zoning Ordinance text amendment is to add Section 7.124 Medical Use of Marijuana – Home Occupation, which includes the following components:

- It will be permitted as a home occupation and an accessory use of dwelling units.
- It will not be permitted in non-residential areas.
- One caregiver may operate per dwelling.
- Medical marijuana use by registered caregivers may occupy up to 20% of the floor area of a dwelling, not to exceed 300 square feet.
- Medical marijuana facility land uses authorized in the State of Michigan by PA 281 of 2016 remain prohibited.
- Recreational marijuana land uses authorized in the State of Michigan by Michigan Initiated Law 1 of 2018 remain prohibited.

Caregivers can grow outside, however it has to be in a closed locked facility. The amendment also puts a limit on noise and odor in residential areas.

Commissioners discussed the amendments and had the following questions and comments:

- On properties with acreage are caregivers allowed to construct a pole barn or an accessory building? Caregivers are limited to it being an accessory use with an allowable size up to 300 square feet and is allowable in a garage.
- Are caregivers allowed in light industrial zoning? No, they are prohibited in all other areas except for residential.
- Is there any language to add to ensure that the strictly residential area does not become commercial by the caregiver, causing more traffic? Section 7.124 (B) subsection 9 prohibits the transfer from taking place at or on the premises of the primary caregiver.
- Will this create additional work for public safety? No, the ordinance amendments were created to address problems if they arise.
- The caregiver delivers to the patient? Yes, it was written that way in the ordinance to not increase foot traffic in the neighborhoods. If it becomes obvious there is a dealer, the ordinance has language to address it.
- The proposed ordinance is going to turn the caregiver into a home occupation, there are residents that live in other types of units. This will apply to dwellings and units, however private associations such as condo associations may try to prohibit.
- In Section B, point 11 no one under the age 18 shall have access to medical marijuana, is that in line with MMMA or a local constraint? It is a local constraint and should be access to “the” medical marijuana. This regulates the activity, if under age 18 they may be able to get medical marijuana, not recreational.
- The Zoning Ordinance determines how land is used in regards to a business and not how a business is to be conducted. Inquired why the ordinance amendment controlling how a caregiver is a home occupation is in the Zoning Ordinance instead of the General Ordinance Chapter 22. The Michigan Supreme Court held this up as a Zoning Ordinance and the amendment mirrors what has held up as allowable and legal.
- In section A, point 7, the statement “registered primary caregivers are expressly prohibited from operating outside of residentially used properties”, is that statement a

finding of the MMMA or intended to be one of our ordinances to enforce and should it be moved to Section B? We are allowing it as a home occupation and not as anything else, the statement can be moved to Section B and added as point 20.

- Commissioners agreed for staff to make the following changes: adding the word “the” to Section B, point 11 and moving the last sentence of Section A, point 7 “registered primary caregivers are expressly prohibited from operating outside of residentially used properties” to Section B, point 20.

Motion Boynton, Jahr second to recommend to the Township Board of Trustees the proposed amendments to limit medical marijuana caregiver activities authorized under Michigan initiated law 1 of 2008. The amendments will be to section 2.102 – definitions, specific terms and article 7 – general provisions, to include edits of the final line of point 7 in Section A to become point 20 of Section B and the addition of the word “the” to point 11 of Section B.

Roll Call:

Yeas: Atchinson, Budd, Boynton, Jahr, Franzoi and Thompson.

Nays: None.

Absent: Kelley.

Motion Carried.

ITEM #2: 20-029 – TEMPORARY LAND USE APPROVAL – WALMART SMALL BUSINESS SATURDAYS.

APPLICANT NICHOLAS SMARSCH ON BEHALF OF OWNER ANDREW KLUNGLAND OF WALMART HAS APPLIED SEEKING TO OCCUPY A 17,300 SQ. FT. AREA FOR FOUR (4) “SMALL BUSINESS SATURDAYS” TENT SALE AND FOOD TRUCK EVENTS ON OCTOBER 17, 24, 30 AND 31, 2020.

LOCATION: THE PROPERTY IS LOCATED AT 10562 BELLEVILLE ROAD (PARCEL NUMBER 83-061-99-0005-714), ON THE WEST SIDE OF BELLEVILLE ROAD BETWEEN TYLER ROAD AND NORTH I-94 SERVICE DRIVE.

Nick Smarsch of Event Permits, LLC gave the presentation. Walmart recognizes small businesses have been hurt by recent events and would like to host four (4) Small Business Saturdays with eight (8) vendors and two (2) food trucks. The event will be limited to fifty (50) people attending at a time, the applicant has hired an off-site security team and is working with the Wayne County Health Department to follow all COVID requirements. Walmart hopes the Small Business Saturdays will help to boost the local business economy.

Director Power gave an overview of the event series and presented his staff review letter dated 10-6-20 recommending approval of the application subject to the following conditions:

1. Disposal of food waste will be required to meet state and local standards.
2. The applicant and the vendors on site will be required to provide waste receptacles and waste must be promptly removed from the site following the event.

3. The applicant should clarify whether existing Walmart parking lot lights will provide adequate event and security lighting for evening hours.
4. The event signage that is publicly visible from a road right-of-way should not exceed 32 square feet for banner signage or 45 square feet for temporary flag signage and should be contained completely on the parcel at 10562 Belleville Road.
5. Any required State of Michigan or Wayne County permits or licenses for vendors or food trucks must be available on site.
6. Activities must remain clear of designated fire lanes.
7. The applicant must adhere to any State of Michigan Executive Orders that remain in effect including capacity limits, social distancing, and sanitation measures as required.
8. Any additional requirements imposed by the Van Buren Township Police or Fire Departments must be adhered to.
9. Inspection(s) at the discretion of the Van Buren Township Building Department and Fire Department may be required prior to the first event date.
10. Food truck vendors should verify with the Public Safety Department whether any local Peddler's License is required and shall obtain such a license if so prior to the first event date.
11. The permit materials shall be updated to reference Van Buren Township and its Township Supervisor in addition to, or in place of, references to the City of Belleville and its Mayor.
12. The use will be completed after the October 31, 2020 event. Any extension, if requested, will be subject to review by the Township Planning Director or Planning Commission.

Commissioners inquired if the tents are staying up overnight on October 30th through to the October 31st event and where the small businesses are coming from. The small businesses are coming from the Belleville area and the intention is the keep the tent up overnight on October 30th. The tents will be emptied out completely by the vendors at the end of the day and security will be onsite.

Motion Jahr, Boynton second to grant a temporary land use permit on behalf of owner Andrew Klungland of Walmart to occupy a 17,300 square foot area for four (4) "Small Business Saturdays" tent sale and food truck events on October 17, 24, 30 and 31, 2020, located at 10562 Belleville Road between Tyler Road and the North I-94 Service Drive, subject to the conditions in the staff report dated 10-6-20.

Roll Call:

Yeas: Atchinson, Budd, Boynton, Jahr, Franzoi and Thompson.

Nays: None.

Absent: Kelley.

Motion Carried. (Letter Attached)

GENERAL DISCUSSION:

ITEM #1: STAFF UPDATE – ACTIVE RESIDENTIAL DEVELOPMENT PROJECTS.

Director Power provided an update on active residential development projects. Victoria Park is preparing for Phase II which includes 67 additional units, the land has already been divided and the last few units in Phase I are nearing completion. Staff will be seeing preconstruction and construction activities for the road in Phase II soon. Cobblestone Creek is preparing for Phase III which includes 69 detached single family site condominium units. Both projects were previously approved by the Planning Commission.

ITEM #2: STAFF UPDATE – ACTIVE PROJECTS AT THE WILLOW RUN AIRPORT OF VAN BUREN TOWNSHIP.

Director Power provided an update on active projects at the Willow Run Airport. Active Aero, a 23,597 square foot airplane parts storage building, administrative zoning approval is granted and the building permit application is pending. Anglin Aviation, five (5) new 14,700 square foot T Hangar buildings, conditional zoning approval has been granted and final site plan approval is pending. Yankee Air Museum has an application under review for educational hangars and Avflight has a hangars application under review.

ADJOURNMENT:

Motion Boynton, Atchinson second to adjourn the meeting at 8:54 p.m. Motion Carried.

Respectfully submitted,

Christina Harman
Recording Secretary

**CHARTER TOWNSHIP OF VAN
BUREN COUNTY OF WAYNE, STATE
OF MICHIGAN
ORDINANCE NO. 11-17-20 (1)**

AN ORDINANCE TO AMEND THE ZONING ORDINANCE 5-2-17(2) AS AMENDED OF THE CHARTER TOWNSHIP OF VAN BUREN TO limit medical marijuana caregiver activities authorized under Michigan Initiated Law 1 of 2008. The amendments will be to Section 2.102 – Definitions, specific terms and Article 7 – general provisions.

THE CHARTER TOWNSHIP OF VAN BUREN ORDAINS:

SECTION 1- ORDINANCE AMENDMENTS

Pursuant to this Ordinance, the following sections of the Charter Township of Van Buren Zoning Ordinance shall be amended in accordance with the below text upon the effective date of this Amendment:

**Proposed Zoning Ordinance Amendments re
Home Occupations & Medical Marihuana**

Section 2.102. Definitions.

- (102) HOME OCCUPATIONS:** Any use customarily conducted entirely within a dwelling unit by the inhabitant thereof which is incidental and secondary to the use of the dwelling unit for dwelling purposes not requiring internal or external alterations or construction features or the use of equipment, machinery, outdoor storage, or signs not customary in residential areas. Clinics, hospitals, barber shops, beauty parlors, tea rooms, tourist homes, bed and breakfast establishments, animal hospitals, kennels, millinery shops, and uses of similar character shall not be deemed to be home occupations. The medical use, cultivation or possession of marijuana as a registered primary caregiver pursuant to, and as defined by, the Michigan Medical Marijuana Act ("MMMA") of 2008, MCL 333.26421, et. al., is subject to the requirements set forth in Section 7.124 of this Ordinance.
-

Section 7.124. Medical Use of Marijuana – Home Occupation.

The acquisition, possession, cultivation, use, delivery or distribution of marijuana to treat or alleviate a debilitating medical condition is prohibited except in compliance with the Michigan

Medical Marijuana Act ("MMMA") of 2008, MCL 333.26421, et. al., and all applicable provisions of this Ordinance.

(A) A registered primary caregiver, operating in compliance with the MMMA General Rules, the MMMA and the requirements of this Section, shall be permitted as a home occupation, as regulated by this Section. The Township makes the following findings, in support of its determination that the regulation of registered primary caregivers as a permitted home occupation is consistent with the purposes and intent of the MMMA:

(1) The MMMA does not create a general right for individuals to use, possess, or deliver marijuana in Michigan.

(2) The MMMA's protections are limited to individuals suffering from serious or debilitating medical conditions or symptoms, to the extent that the individuals' marijuana use is carried out in compliance with the provisions of the MMMA, including the provisions related to the operations of registered primary caregivers.

(3) The MMMA's definition of "medical use" of marijuana includes the "transfer" of marijuana "to treat or alleviate a registered qualifying patient's debilitating medical condition or symptoms associated with the debilitating medical condition," but only if such "transfer" is performed by a registered primary caregiver who is connected with the same qualifying patient through the registration process established by the Department of Licensing and Regulatory Affairs, and who is otherwise operating in strict compliance with the MMMA and the MMMA General Rules.

(4) The MMMA provides that a registered primary caregiver may assist no more than five qualifying patients with their medical use of marijuana.

(5) The MMMA does not, therefore, create a new vocation for entrepreneurs or others who wish to engage in the sale of marijuana to more than five persons in a commercial setting. Instead, the MMMA is directed at improving the health and welfare of qualifying patients.

(6) The health and welfare of qualifying patients is improved by permitting the operations of registered primary caregivers as a home occupation, because this allows qualifying patients who suffer from serious or debilitating medical conditions or symptoms to obtain the benefits of the medical use of marijuana in a residential setting, without having to unnecessarily travel into commercial areas.

(7) By permitting the operations of registered primary caregivers as a home occupation, rather than in a commercial setting, this promotes the MMMA's purpose of ensuring that (i) a registered primary caregiver is not assisting more than five qualifying patients with their medical use of marijuana, and (ii) a registered primary caregiver does not unlawfully expand its operations beyond five qualifying patients, so as to become an illegal commercial operation, in the nature of a marijuana collective, cooperative or dispensary. Registered primary caregivers are expressly prohibited from operating outside of residentially used properties.

(B) The following standards and requirements shall apply to the location at which the medical use of marijuana is conducted by a primary caregiver.

(1) The medical use of marijuana shall comply at all times with the MMMA and the MMMA General Rules, as amended.

(2) A registered primary caregiver shall not possess marijuana, or otherwise engage in the medical use of marijuana, in a school bus, on the grounds of any preschool or primary or secondary school, or in any correctional facility.

(3) Not more than one (1) registered primary caregiver, who shall also be a full-time resident of the dwelling, shall be permitted to operate at any one property.

(4) This home occupation shall be an accessory and secondary use of the dwelling for residential dwelling purposes

(5) No more than 20% of the floor area of a dwelling, or 300 square feet, whichever is less, shall be used for this home occupation.

(6) The medical use of marijuana shall be conducted entirely within a dwelling or attached garage or detached garage, except that a registered primary caregiver may keep and cultivate, in an "enclosed, locked facility" (as that phrase is defined by the MMMA), up to 12 marijuana plants for each registered qualifying patient with whom the registered primary caregiver is connected through the registration process established by the Department of Licensing and Regulatory Affairs, and up to 12 additional marijuana plants for personal use, if the primary caregiver is also registered as a qualifying patient under the MMMA. The dwelling and the home occupation must be in compliance with all applicable building and fire codes for the health, safety and welfare of the occupants and the surrounding neighborhood.

(7) A sign identifying the home occupation by word, image or otherwise, or indicating that the medical use of marijuana is taking place on the premises, shall not be permitted; nor shall any vehicle having such a sign be parked anywhere on the premises.

(8) Except for lighting, heating, watering, drying or other equipment, or fertilizers, herbicides or other chemicals directly related to the medical use of marijuana, no other materials or equipment not generally associated with normal ownership, use, and maintenance of a dwelling shall be permitted. All fertilizers, herbicides and chemicals shall be properly stored and marked.

(9) Distribution of marijuana or use of items in the administration of marijuana shall not occur at or on the premises of the primary caregiver. A qualifying patient shall not visit, come to, or be present at the residence of the primary caregiver to purchase, smoke, consume, obtain or receive possession of any marijuana.

(10) Except for the primary caregiver, no other person shall deliver marijuana to the qualifying patient.

(11) No one under the age of 18 years shall have access to medical marijuana.

(12) No on-site consumption or smoking of marijuana shall be permitted within the dwelling (or on the property) of a primary caregiver, except for lawful medical marijuana consumption by the primary caregiver if registered as a qualifying patient under the MMMA.

(13) Medical marijuana shall not be grown, processed, handled or possessed at the dwelling of the primary caregiver beyond that which is permitted by law.

(14) All necessary building, electrical, plumbing and mechanical permits shall be obtained for any portion of a building or structure in which equipment and devices that support the cultivation, growing or harvesting of marijuana are located or used.

(15) If marijuana is grown or located in a room with windows, all interior lighting shall be shielded to prevent ambient light from creating a distraction for adjacent properties.

(16) Related merchandise or products shall not be sold or distributed from the dwelling or property of the primary caregiver, apart from the permitted quantity of medical marijuana.

(17) The medical use, cultivation or possession of marijuana shall not be conducted in a manner creating odors, noise, dust, vibrations, glare, or fumes detectible to the normal senses beyond the boundaries of the premises.

(18) To ensure compliance with all applicable requirements and laws, the portion of a building or other structure, such as a cultivation room, where energy use and heating requirements exceed typical residential limits and chemical storage occurs, are subject to inspection and approval by the Building Department or other authorized official.

(19) The property, dwelling and all enclosed, locked facilities shall be available for inspection upon request by the Building Department or Public Safety Department.

Section 7.125 Marijuana Facilities and Establishments Prohibited

- (A) Any and all types of a “marihuana establishment,” as that term is defined and used in Michigan Initiated Law 1 of 2018, commonly known as the Michigan Regulation and Taxation of Marihuana Act, MCL 333.27951, et. seq., are completely prohibited in the Township, and may not be established or operated in any zoning district, by any means, including by way of a variance.
- (B) Any and all types of “marihuana facilities” as described in Act 281 of 2016, the Medical Marihuana Facilities Licensing Act, MCL 333.27101, et. seq., are completely prohibited in the Township and may not be established, licensed or operated in any zoning district, by any means, including by way of a variance.
- (C) Nothing in this Section shall limit any privileges, rights, immunities or defenses of a person as provided in the Michigan Medical Marihuana Act, Michigan Initiated Law 1 of 2008, MCL 333.26421, et seq., except as otherwise provided in Section 7.124 of this Ordinance.

SECTION 2 - SEVERABILITY

Should any provision or part of this Ordinance be declared by any court of competent jurisdiction to be invalid or unenforceable, the same shall not affect the validity or enforceability of the balance of this Ordinance, which shall remain in full force and effect.

SECTION 3 - REPEALER

All other provisions of the Zoning Ordinance, or Ordinances or parts of Ordinances, in conflict with this Ordinance are hereby repealed only to the extent necessary to give this Ordinance full force and effect.

SECTION 4- SAVINGS CLAUSE

Nothing in this Ordinance shall be construed to affect any suit or proceeding pending in any court or any rights acquired or any liability incurred, or any cause or causes of action acquired or existing, under the Zoning Ordinance, or any act or Ordinance hereby repealed as cited in Section 3 of this Ordinance; nor shall any just or legal right or remedy of any character be lost, impaired, or affected by this Ordinance.

SECTION 5 - EFFECTIVE DATE

The provisions of this Ordinance are hereby ordered to take effect seven (7) days after publication of the notice of adoption in a newspaper of general circulation within the Township. This Ordinance shall be immediately recorded by the Township Clerk in the Township Ordinance Book as soon as it is adopted, which record shall be authenticated by the signatures of the Supervisor and Clerk and shall be published in a newspaper of general circulation in the Township within fifteen (15) days of passage. A copy of this Ordinance may be purchased or inspected at the Clerk's Office, 46425 Tyler Road, Van Buren Township, MI 48111 during normal business hours.

Charter Township of Van Buren

Agenda Item: _____

REQUEST FOR BOARD ACTION

WS / BOARD MEETING DATE: 12/1/20

Consent Agenda_____

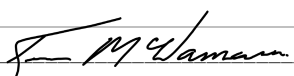
New Business X

Unfinished Business_____

Public Hearing_____

ITEM (SUBJECT)	A request applicant Jiffy Lube International, Inc. on behalf of owner Meijer, Inc. to construct a Minor Vehicle Service use along with related site improvements. The proposed +/- 3,064 square foot, single-story building is located on the south side of Tyler Road east of Belleville Road on a proposed +/- 0.72 outparcel to be divided and created from portions of the 39.4-acre parcel at 9701 Belleville Road (83 058 99 0006 705) and a vacant 1.33-acre parcel (83 058 99 0006 707). The property is zoned C-2 – Extensive Highway Business District and also in the Belleville Road Overlay District (BROD). Minor vehicle service developments are Special Land Uses in the C-2 District and require Board of Trustees approval.
DEPARTMENT	Planning & Economic Development
PRESENTER	Dan Power – Director of Planning and Economic Development
PHONE NUMBER	734-699-8913
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Vidya Krishnan – Principal Planner Paul Kammer – Township Engineer Matthew Best – Director of Public Services Elizabeth Renaud, Executive Assistant Public Services

Agenda topic

ACTION REQUESTED	
A request applicant Jiffy Lube International, Inc. on behalf of owner Meijer, Inc. to construct a Minor Vehicle Service use along with related site improvements. The proposed +/- 3,064 square foot, single-story building is located on the south side of Tyler Road east of Belleville Road on a proposed +/- 0.72 outparcel to be divided and created from portions of the 39.4-acre parcel at 9701 Belleville Road (83 058 99 0006 705) and a vacant 1.33-acre parcel (83 058 99 0006 707). The property is zoned C-2 – Extensive Highway Business District and also in the Belleville Road Overlay District (BROD). Minor vehicle service developments are Special Land Uses in the C-2 District and require Board of Trustees approval.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
Please see attached information.	
BUDGET IMPLICATION	None
IMPLEMENTATION NEXT STEP	If approval is granted the applicant will continue with the site plan review process.
DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	Approval
ATTORNEY RECOMMENDATION	N/A
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	



MEMO

TO:	Van Buren Township Board of Trustees
FROM:	Dan Power– Director of Planning and Economic Development
RE:	VB Case 20-012 – Jiffy Lube Minor Vehicle Service special land use Request
DATE:	November 24, 2020

The Van Buren Township Board of Trustees is requested to consider a request by applicant Jiffy Lube International, Inc. on behalf of owner Meijer, Inc. to construct a Minor Vehicle Service use. The proposed use includes a +/- 3,064 square foot, single-story building with a façade primarily composed of brick and glass, landscaping including 28 proposed deciduous and ornamental trees, eight (8) preserved trees, shrubs, hedges, and perennial plantings, 13 off-street parking spaces, stormwater improvements, and other improvements.

The subject site is on the south side of Tyler Road east of Belleville Road on a proposed +/- 0.72 outparcel of the larger Meijer store at 9701 Belleville Road. The site is zoned C-2 – Extensive Highway Business District and is also in the Belleville Road Overlay District (BROD). Minor vehicle service is a special land use in the C-2 District. A public hearing was held in accordance with Article 12, Chapter 3 of the Zoning Ordinance (Administrative Procedures - special land use Review) at the regular Planning Commission meeting held on November 11, 2020. The requested special land use prompts a review of the general and specific special land use criteria for minor vehicle service developments. The special land use request was recommended for approval by the Planning Commission. The Township Board of Trustees will now consider the request.

The proposal prompts a review of compliance with applicable Township zoning, engineering, and Fire Department standards as well as consistency with the design and architectural requirements of the Township's BROD. This first occurred through a preliminary site plan review during the November 11th Planning Commission meeting. The preliminary site plan was conditionally approved by the Planning Commission along with the special land use request. Conditions placed on the project plans and submittals to be addressed at the time of final site plan review are included in comments from the Township Principal Planner in a letter dated October 30, 2020, from the Township

Engineer dated October 27, and from the Township Fire Inspector Andrew Lenaghan dated October 28, 2020. These comments are enclosed in this packet.

Staff supports special land use approval based on the findings that the use has meet zoning ordinance requirements, broadly and specifically in relation to the C-2 zoning district and BROD. Subject to meeting conditions of approval and subject engineering and review, the proposed use includes design treatments that align it with the intent and purpose of both the BROD and C-2 zoning district, which are included with this packet. If special land use approval is granted, the project will undergo final site plan review. The final site plan review process will involve a detailed review of compliance with applicable Township and Wayne County stormwater, soil erosion, and other engineering regulations as well as Township zoning regulations. The Planning Commission will act on a potential final site plan review at a future date.

I look forward to assisting with this review.

Sincerely,

A handwritten signature in cursive script, appearing to read "Dan Power".

Dan Power, AICP
Planning and Economic Development Director
Public Services Department
Charter Township of Van Buren

CC: Irwing Gama and Tim Kratz – Sevan Solutions
Claire Gilroy – Jiffy Lube International, Inc.
Vidya Krishnan – Van Buren Charter Township Principal Planner / Planning
Consultant – McKenna Associates
Paul Kammer – Van Buren Township Engineer - Fishbeck
Matthew Best, M.S. - Public Services Director, Van Buren Charter Township

PLANNING & ZONING APPLICATION

Case number _____ Date Submitted _____

APPLICANT INFORMATION

Applicant	Jiffy Lube International, Inc.	Phone	(832) 337-9809
Address	150 N. Dairy Ashford Rd, Building F, Rm F 376 D	Fax	
City, State	Houston, TX	Zip	77079
E:mail	Claire.Gilroy@shell.com	Cell Phone Number	
Property Owner	MEIJER INC	Phone	(616) 791-3909
	(if different than applicant)		
Address	2929 WALKER AVENUE NW	Fax	
City, State	GRAND RAPIDS, MI	Zip	49544
Billing Contact	Claire Gilroy	Phone	(832) 337-9809
Address	150 N. Dairy Ashford Rd, Building F, Rm F 376 D	Fax	
City, State	Houston, TX	Zip	77079

SITE/ PROJECT INFORMATION

Name of Project Jiffy Lube

Parcel Id No. V125-83- 058 99 0006 707 Project Address 9701 Belleville Rd, Van Buren Township

Attach Legal Description of Property

Property Location: On the South Side of Tyler Road; Between Belleville Road and Morton Taylor Road. Size of Lot Width 143' Depth 219'

Acreage of Site .72 Total Acres of Site to Review .72 Current Zoning of Site C-2

Project Description: New construction of a Jiffy Lube oil change facility.

Is a re-zoning of this parcel being requested? No YES (if yes complete next line) NO

Current Zoning of Site Requested Zoning

SPECIAL PERMIT INFORMATION

Does the Proposed Use Require Special Approval? Special Use Approval YES (if yes complete next line) NO

Section of Zoning Ordinance for which you are applying Section 12.301

Is there an official Woodland within parcel? N/A Woodland acreage N/A

List total number of regulated trees outside the Woodland area? Total number of trees

Detailed description for cutting trees N/A

If applicable application **MUST** be accompanied with a Tree Survey or statement of no trees, which incorporates all the requirements listed in Section 4.45 of Zoning Ordinance 6-2-92, as amended.

OWNER'S AFFIDAVIT

Matthew Levitt, Real Estate Manager, Meijer, Inc.

Print Property Owners Name

Matthew Levitt

Signature of Property Owner

May 13, 2020

Date

**CHARTER TOWNSHIP OF VAN BUREN
PLANNING COMMISSION
REMOTE PUBLIC HEARING**

Notice is hereby given that the Charter Township of Van Buren Planning Commission will hold a public hearing on **Wednesday, November 11th at 7:30 p.m.** Pending the enactment of legislation which allows for remote public meetings, this meeting will take place electronically due to health concerns associated with COVID-19. Alternatively, if the meeting is to occur in person at the on-site location of 46425 Tyler Road, Van Buren Township, MI, 48111, advance notice will be provided via mail. The Planning Commission will consider the following request:

Case #20-012- A request applicant Jiffy Lube International, Inc. on behalf of owner Meijer, Inc. to construct a Minor Vehicle Service use along with related site improvements. The proposed +/- 3,064 square foot, single-story building is located on the south side of Tyler Road east of Belleville Road on a proposed +/- 0.71 outparcel to be divided and created from portions of the 39.4-acre parcel at 9701 Belleville Road (83 058 99 0006 705) and a vacant 1.33-acre parcel (83 058 99 0006 707). The property is zoned C-2 – Extensive Highway Business District and also in the Belleville Road Overlay District (BROD).

Minor vehicle service developments are a Special Land Use in the C-2 District. The proposed Special Land Use requires a public hearing. This hearing is being held in accordance with Article 12, Chapter 3 of the Zoning Ordinance (Administrative Procedures - Special Land Use Review).

Members of the public may access the agenda materials via the Township website – www.vanburen-mi.org beginning **November 6, 2020**. On this website, members of the public will also gain access to **means of participating in the electronic meeting**, including a unique Zoom weblink and dial-in phone number with a meeting ID for meeting videoconference or teleconference access. The meeting will be available to view live on the Van Buren Township YouTube Channel which can be reached from the live meeting link located on the Van Buren Township website home page (www.vanburen-mi.org). Closed captioning will be available after YouTube fully renders meeting video.

A complete **procedure for public comment by electronic means** is provided on a guide which is accessible on the Van Buren Township website (www.vanburen-mi.org). Participants may also choose to submit written comments that will be read into record during public comment by the Chairperson. Submit any written comments via e-mail to dpower@vanburen-mi.org by **Noon, Tuesday, November 10, 2020**, which is the day before the meeting. Members of the public may also contact dpower@vanburen-mi.org to be connected with members of the Planning Commission prior to the meeting by e-mail.

To comply with the Americans with Disabilities Act (ADA), any citizen requesting accommodation to attend a meeting, and/or to obtain this notice in alternate formats, please contact the Clerk's Office at 734.699.8900 extension 9205.

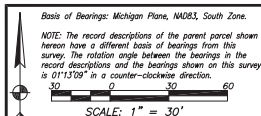
Posted: 10/16/2020

Published: 10/22/2020

MAILED 10/16/20
PUBLISHED TO NEWSPAPER 10/22/20

Don Power
DON POWER

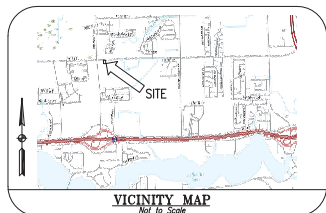
[illegible]



LEGEND	
XXX	- Dimension based on this survey
XXXX	- © Cap RWMC, Inc.
XXXX 57616"	- © Cap for Anthony Insurance, PS
RBS	- 3/4" Rebar Set with Tension PDS3014" ID Cap
CO2	- Cut Cross Set
Schedule 82 Item	- Schedule 82 Item
DLZ	- DLZ Control Point Number
Drainage Structure	- Drainage Structure
Light Pole	- Light Pole
Storm Manhole	- Storm Manhole
Tree (Decision)	- Tree (Decision)
Utility Pole	- Utility Pole
Cap Anchor	- Cap Anchor
Day Pole	- Day Pole
Monitoring Well	- Monitoring Well
Sol Boring	- Sol Boring
Underground Sanitary Sewer/ Storm Line	- Underground Sanitary Sewer/ Storm Line
Overhead Utility Line	- Overhead Utility Line
Underground Electric Line	- Underground Electric Line
Underground Electric Line (From Map)	- Underground Electric Line (From Map)
Underground AT&T Telephone Line (From Map)	- Underground AT&T Telephone Line (From Map)
Underground Gas Line	- Underground Gas Line
Underground Gas Line (From Map)	- Underground Gas Line (From Map)
Underground Water Line (From Map)	- Underground Water Line (From Map)
Underground Fiber Optic Line (From Map)	- Underground Fiber Optic Line (From Map)

CONTROL POINTS			
Pt. No.	Northing	Eastings	Elev. Description
21	268601.15	133621.38.60	703.31 Cut Cross
22	268459.24	133625.12.74	697.63 Cut Cross

Coordinates are relative to the Michigan State Plane Coordinate System of 1983, South Zone



SURVEYOR'S CERTIFICATE:

To: Fidelity National Title Insurance Company
Jiffy Lube International, Inc.
Mejor, Inc.

This is to certify that this map or plot and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(b), 7(b)(1), 7(b)(2), 8, 9, 11, 13, 17, 18, and 21 of Table "A" thereof. The field work was completed on April 20, 2020.

Date of Plot or Map: May 18, 2020

PRELIMINARY 9-22-2020

Anthony Joseph Toscani
Michigan Professional Surveyor No. 4001057516
Email: atoscani@dlz.com
www.dlz.com

DLZ
INDUSTRIAL SURVEYING, INC.

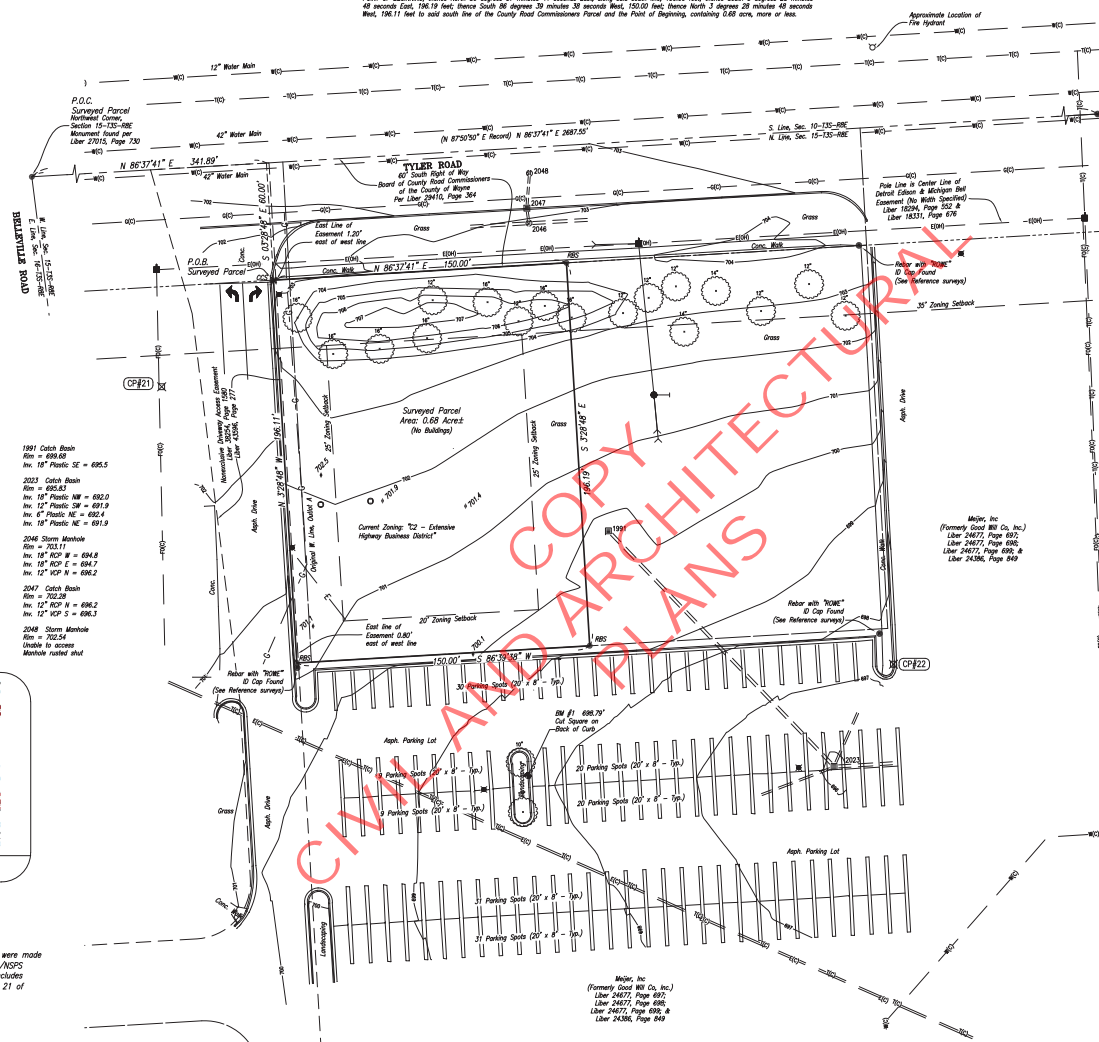
316 TECH DRIVE, BURNS HARBOR, INDIANA 46304
TELEPHONE (219) 764-4700 FAX (219) 764-4156

ALTA/NSPS LAND TITLE SURVEY

Property Description: (Per Title Commitment 022000060 - Revision 2)

Part of the Northwest Quarter of Section 15, Township 3 South, Range 8 East, Van Buren Township, Wayne County, Michigan being more particularly described as follows:

Commencing at the Northwest corner of said Section 15, thence North 86 degrees 37 minutes 41 seconds East (this and all subsequent bearings are referenced to the Michigan State Plane Coordinate System of 1983, South Zone), 341.89 feet along the north line of said Northwest Quarter, thence South 3 degrees 28 minutes 48 seconds East, 60.00 feet to the south line of a Parcel described in the Board of County Road Commissioners of the County of Wayne in a Grant of Right of Way document recorded in Liber 24413, Page 364, Wayne County Records and the Point of Beginning, thence North 86 degrees 37 minutes 41 seconds East, along said south line, 150.00 feet; thence South 3 degrees 28 minutes 48 seconds East, 186.19 feet; thence South 86 degrees 39 minutes 39 seconds West, 150.00 feet; thence North 3 degrees 28 minutes 48 seconds West, 186.17 feet to said south line of the County Road Commissioners Parcel and the Point of Beginning, containing 0.68 acre, more or less.



ALTA/NSPS Land Title Survey Table "A" Items:

1. Found or set monuments are shown hereon. Additional monuments were found along the south right of way of Tyler Road, east of the surveyed parcel, which are not shown hereon.
2. The address of 9701 Belleville Road is for the Mejor Store located on the parent parcel.
3. The accuracy of any flood hazard data shown on this plot is subject to map scale uncertainty and to any other uncertainty in location or elevation on the Flood Insurance Rate Map (FIRM). The Parcel shown and described on this plot appears to be within Flood Hazard Zone "Unshaded X" as said tracts plot by scale on Map Number 261630351E of the FIRM for Charter Township of Van Buren, Michigan, dated February 2, 2012 (Panel Not Printed by FEMA). This statement does not guarantee the surveyed parcel will or will not flood.
4. The Gross Land Area of the Surveyed Parcel was calculated to be 0.68 acre, more or less.
5. The one-foot contours and elevations shown hereon are based on a ground survey of the surveyed parcel and are referenced to the North American Vertical Datum of 1988 (NAVD88) as derived from Network RTK GPS observations of the primary site control to the NAD83 CORS network. The site benchmark shown hereon was lithographically leveled from the primary control and is described as follows:
The site benchmark is a cut square on back of curb located near the south line of the surveyed parcel as shown hereon. Site Benchmark Elevation: 698.79' (NAVD88)
At this site, NGVD 29 datum elevations are 0.44 foot higher than NAVD 88 datum elevations.
L.E. 700.00' (NAVD 88) = 700.44' (NGVD 29)
- 6(a). A Zoning Report or Letter was not provided to the surveyor.
For the Van Buren Township Zoning Map, dated July 7, 2017, the surveyed parcel is currently located in Zoning District "C-2 - Extensive Highway Business District".
The following information is per the Charter Township of Van Buren, Michigan Zoning Ordinance, effective date July 2, 2017:
Minimum Setbacks:
Front Yard: 35-feet
Side Yard: 25-feet (30-feet total)
Rear Yard: 20-feet
Maximum Building Height: 40-feet (4-Stories)
7(a). 7(b)(1), 7(b)(2). There are no buildings located on the surveyed parcel.
8. Only improvements which were visible from above ground at the time of the survey and through a normal search and walk through of the site are shown.
9. There were no observed parking spaces located on the surveyed parcel as shown hereon.
11. The locations of utilities, as shown hereon, are based on above ground structures, any markings observed in the course of the field survey and maps provided to the surveyor based on a MSS DIG design ticket request (Ticket Number: B00049103-008). Additional utilities may be encountered. Utilities are marked with federal highway association "quality level" designations.
(C) Indicates Quality Level C - involves surveying visible utility facilities and correlating the information with existing utility records.
13. Names of adjoining owners are based on record documents provided to the surveyor.
17. An attempt was made to contact the Wayne County Engineering Department and the Van Buren Road Commission. These offices are currently closed due to a Shelter in Place order issued by the State of Michigan. There was no observed evidence of recent street or sidewalk construction or repairs at the time of this survey.
18. There were no wetland delineations observed during the course of this survey.
21. Soil borings observed during the course of this survey are shown hereon.

Notes Corresponding to Schedule "B-2"

The commitment for title insurance issued by Fidelity National Title Insurance Company, effective date February 21, 2020, as Commitment No. 022000060 - Revision 2, contains no exceptions which are survey matters.

Reference Surveys

- The following were referenced during the course of this survey:
1. An ALTA/ACSM Land Title Survey of the parent parcel prepared by Progressive, AE as File Number: 8807-40A, dated January 1, 1990.
 2. An unsigned ALTA/ACSM Land Title Survey, marked "Preliminary" of an area that partially encompassed the Surveyed Parcel prepared by ROWE, Inc. as Job No. 050298, dated December, 2005. According to ROWE, the project was canceled during the course of their survey. NOTE: Rebar with "ROWE" ID caps were removed during the course of this survey with that firm's permission.

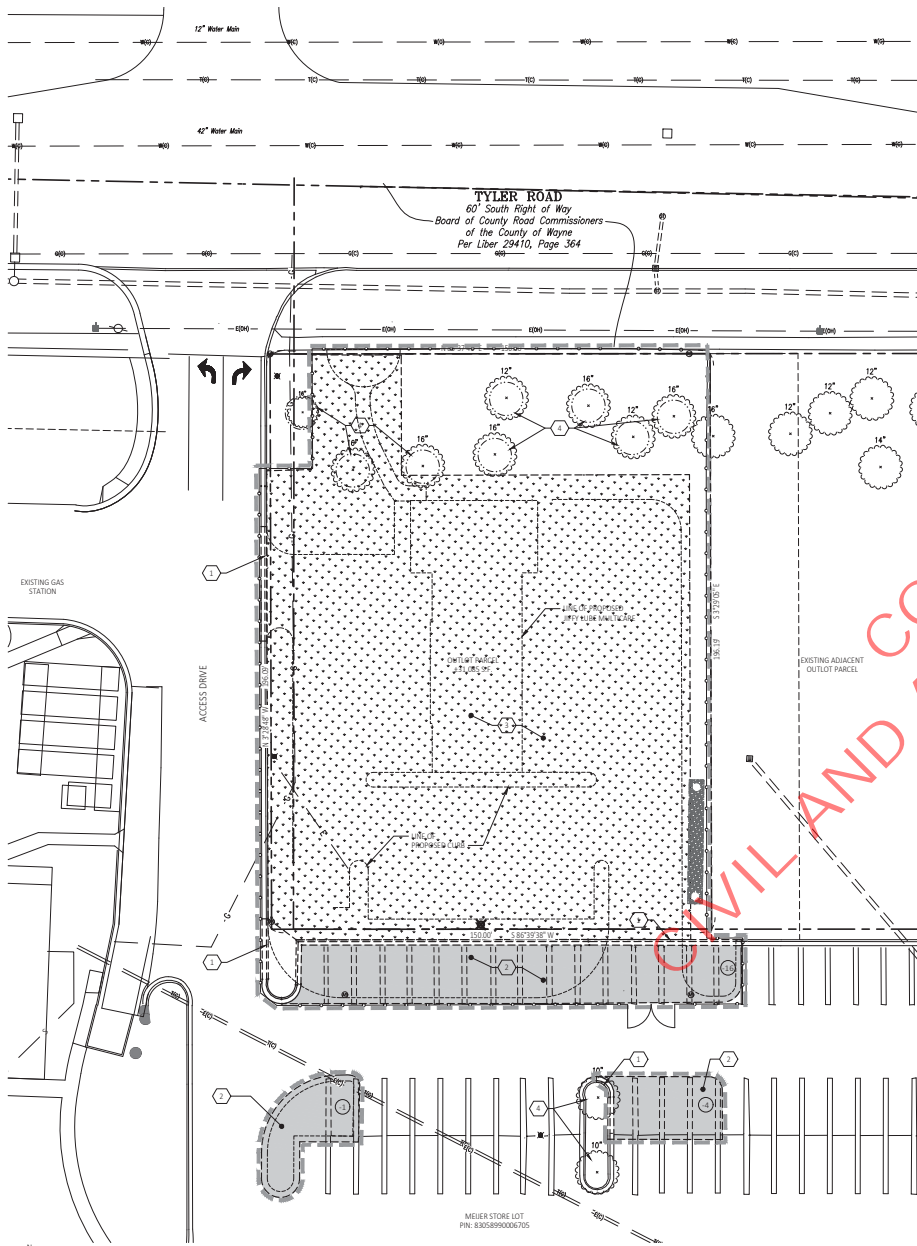
VAN BUREN TOWNSHIP
ALTA/NSPS LAND TITLE SURVEY
9701 BELLVILLE ROAD

MICHIGAN

PART OF THE NW 1/4, SECTION 15-T3S-R8E
SEVAN MULTI-SITE SOLUTIONS, LLC.

DRAWN: AJT	CHK'D: RHK	NO.	REVISION	BY	DATE
DESIGNED: -	APPROV'D: AJT		Change parcel configuration. Township comments	AJT	9/22/20
DATE: APRIL 21, 2020					
SCALE: 1" = 30'					
PROJECT NUMBER					
2011-0057-90					

SHEET 1
OF 1
DRAWING NUMBER
0057AL



DEMOLITION SITE PLAN
SCALE: 1" = 20'-0"

- DEMOLITION SITE PLAN KEYNOTES:**
1. SAWCUT FULL DEPTH, REMOVE AND DISPOSE OF PORTION OF CONCRETE, CURB AND GUTTER.
 2. SAWCUT FULL DEPTH, REMOVE AND DISPOSE OF PORTION OF ASPHALT PAVEMENT.
 3. STRIP AND STOCKPILE TOPSOIL, ANY TOPSOIL TO BE STORED ON SITE MUST BE SURROUNDED BY SILT FENCE. SEE SOIL EROSION AND SEDIMENT CONTROL PLAN C1.11.
 4. EXISTING TREES TO REMAIN. SEE LANDSCAPE PLAN L1.20. PROVIDE AND INSTALL TREE PROTECTION FENCE AS REQUIRED. SEE SHEET C1.11.

EXISTING:

- BM #1**
- Benchmark
 - Curb Inlet/ Storm Inlet
 - Cable Riser
 - Electric Transformer
 - Fire Hydrant
 - × Light Pole
 - Sanitary Sewer Manhole
 - Storm Manhole
 - Water Manhole
 - ▲ Utility Pole
 - ☆ Coniferous Tree
 - Deciduous Tree
 - Chain Link Fence
 - E(OH)— Overhead Utility Line
 - G(C)— Underground Gas Line (From Map)
 - S(S)— Underground Sanitary Sewer/ Storm Line
 - T(C)— Underground AT&T Telephone Line (From Map)
 - W(W)— Underground Water Line
 - E(C)— Underground Electric Line (From Map)

LEGEND



sevan
ENGINEERING

Headquarters:
37704 Hills Tech Drive
Farmington Hills, MI 48331
(248) 465-1000

Corporate Office:
3025 Highland Parkway, Suite 850
Downers Grove, IL 60515
(630) 465-1000

WEIGHT | REPORT | TRANSMISSION | ENCLOSURE | COMMENT

REVISIONS

NO.	DATE	DESCRIPTION
0	05.01.2020	OWNER REVIEW
1	05.20.2020	SITE PLAN REVIEW
2	09.11.2020	SITE PLAN REVIEW #1

CONSULTANT



SEAL



CUSTOMER



PROJECT DESCRIPTION

**JIFFY LUBE
MULTI-CARE SERVICES**

PROJECT LOCATION

**9701 BELLEVILLE RD
VAN BUREN CHARTER
TOWNSHIP, MI 48111**

(WAYNE COUNTY)

SHEET TITLE

**DEMOLITION
SITE PLAN**

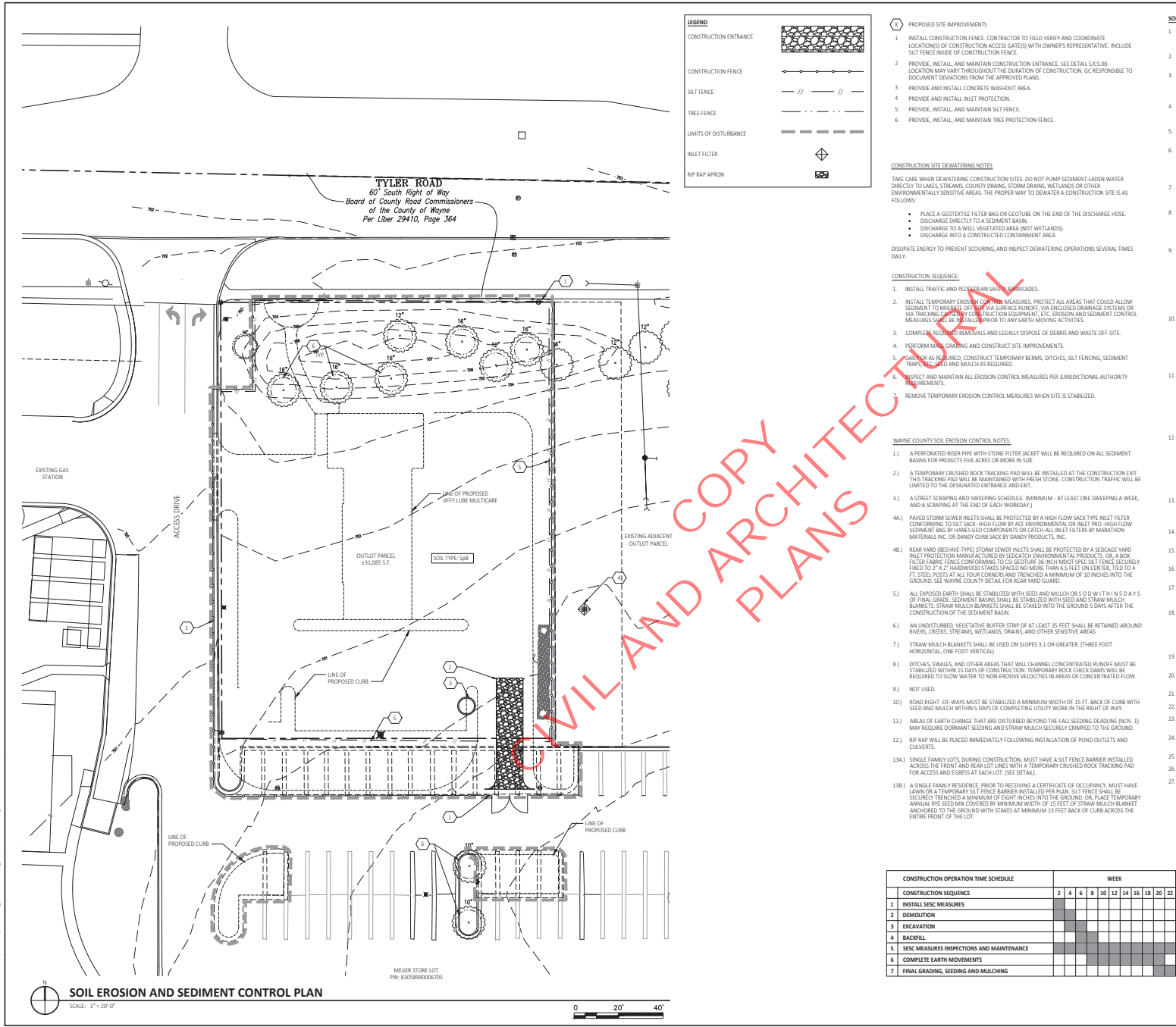
SHEET MANAGEMENT

PROJECT NO.: 072, BELLEVILLE
DATE: C1.10.dwg
PROJECT MANAGER: M. POKO

SHEET NUMBER

C1.10

C:\Users\j\OneDrive\Working\Projects\B0703_240424\B0703_240424.dwg, 10/20/2024 10:57 PM, NOTES: 10/20/2024 10:57 PM



SOIL EROSION AND SEDIMENT CONTROL AND MAINTENANCE NOTES:

1. A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT, OR SIMILAR PERMIT FROM THE JURISDICTIONAL AUTHORITY, MUST BE SECURED AND POSTED ON SITE PRIOR TO ANY EARTH CHANGES.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE JURISDICTIONAL AUTHORITY.
3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OF SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAIN, LAKES AND PONDS.
4. THE GENERAL CONTRACTOR SHALL STAGE ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) WORK AS DIRECTED TO THE DRAWINGS AND PROJECT MANUAL, AND AS OTHERWISE NECESSARY OR APPROPRIATE TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SESC DEVICES.
6. THE GENERAL CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SESC MEASURES AS SHOWN IN THE DRAWINGS AND PROJECT MANUAL BEFORE, AND AT ALL TIMES DURING, THE CONSTRUCTION OF THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SESC MEASURES AS TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR AS DIRECTED BY THE JURISDICTIONAL AUTHORITY.
7. IF ANY OF THE SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INEFFECTIVE, THE JURISDICTIONAL AUTHORITY HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF THE GENERAL CONTRACTOR.
8. THE GENERAL CONTRACTOR SHALL INSPECT THE SESC DEVICES ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN ACCORDANCE WITH NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. ANY REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
9. INSTALL SILT FENCE AS INDICATED IN THE DRAWINGS AND PROJECT MANUAL, PER ATTACHED DETAIL, AND AT ADDITIONAL AFFECTED AREAS AS NECESSARY.
 - A. SILT FENCE SHALL BE INSPECTED ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
 - B. BUILD-UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATED TO 1/3 OF THE HEIGHT OF THE SILT FENCE.
 - C. IF SILT FENCE DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE SILT FENCE SHALL BE REPLACED PROMPTLY.
10. INSTALL INLET FILTERS ON ALL PAVEMENT CATCH BASINS PER DETAIL.
 - A. INLET FILTERS SHALL BE INSPECTED ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
 - B. BUILD-UP OF SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.
 - C. IF FILTER FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FILTER FABRIC SHALL BE REPLACED PROMPTLY.
11. INSTALL DRAIN GUARD ON ALL CATCH BASINS PER DETAIL. SEED OR SOD THE AREA BETWEEN THE SILT FENCE AND THE INLET.
 - A. DRAIN GUARDS SHALL BE INSPECTED ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT.
 - B. BUILD-UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATED TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.
 - C. IF FILTER FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FILTER FABRIC SHALL BE REPLACED PROMPTLY.
12. ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM LEAVING THE SITE. SILT FENCE MUST BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE. IF THE STOCKPILE WILL BE ON SITE FOR MORE THAN 30 DAYS, THE STOCKPILE MUST BE SEEDS IMMEDIATELY AFTER SEEDING. MULCH ALL SEEDS AREAS WITH UNWEATHERED SMALL GRAIN STRAW, SPREAD UNIFORMITY AT THE RATE OF 3 TO 4 TONS PER ACRE OR 100 POUNDS (20 BALES) PER 1000 SQUARE FEET.
 - A. THE MULCH SHOULD BE ANCHORED WITH SOIL TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE JURISDICTIONAL AUTHORITY. MULCH MATTING MAY BE USED IN LOTS OF LOOSE MULCH.
13. IF ANY PUMP-DRIVEN DETERIORATION IS NEEDED, IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISPERSER MAY BE USED. IF ANY DETERIORATION IS NEEDED OR ANTICIPATED, CONTRACTOR SHALL SUBMIT A DETERIORATION PLAN FOR REVIEW.
14. CONSTRUCTION ACCESS TO BE FROM THE EXISTING APPROACH, OR OTHER EXPRESSLY DESIGNATED AREA. NO ACCESS SHOULD BE MADE FROM ADJACENT PROPERTIES WITHOUT PRIOR CONSENT.
15. ALL MUD, SILT, AND DEBRIS TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY BY THE GENERAL CONTRACTOR.
16. STREETS AND/OR PARKING AREAS WILL BE SCRAPED AND SWEEP ON A DAILY BASIS BY THE GENERAL CONTRACTOR.
17. ALL DISTURBED AREAS SHALL BE MAINTAINED FOR DUST CONTROL. SPRINKLING TRAIL TRUCKS SHALL BE AVAILABLE AT ALL TIMES AND USED ON DAILY BASIS, ON SITE DISTURBED AREAS, AND OTHER AREAS WHERE DUST BECOMES A PROBLEM AS A RESULT OF CONSTRUCTION ACTIVITY.
18. PERMANENT SESC MEASURES FOR ANY DISTURBED LAND AREA SHALL BE COMPLETED BY THE GENERAL CONTRACTOR WITHIN FIVE (5) CALENDAR DAYS AFTER FINAL GRADING ON THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE ACTIVITY CEASES, TEMPORARY SESC MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SESC MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SESC MEASURES ARE IMPLEMENTED.
19. THE GENERAL CONTRACTOR SHALL FINAL GRADE, ESTABLISH VEGETATION, AND/OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.
20. THE GENERAL CONTRACTOR SHALL REMOVE ALL TEMPORARY SESC DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.
21. 3/4" OF TOPSOIL WILL BE USED WHERE VEGETATION IS REQUIRED.
22. SLOPES STEEPER THAN 3V:1H (30%) SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.
23. EXISTING DRAINAGE OUTLET FOR SITE: OVERLAND FLOW TO EXISTING MEADOW ENCLOSED STORM SYSTEM.
24. PROPOSED DRAINAGE OUTLET FOR SITE: CAPTURE, TREAT, DETAIN, AND OUTLET AT A CONTROLLED RATE TO TYLER ROAD NOW STORM WATER MANAGEMENT SYSTEM.
25. TOTAL AREA OF DISTURBANCE: 12,568 S.F. ± 0.75% AC
26. SOIL TYPE: SUB, 30% LOAMY SAND, 6-8% SLOPES
27. NAME OF AND DISTANCE TO NEAREST LAKE, STREAM, OR DRAIN: ROBINSON DRAIN, 650 FT.

sevan
ENGINEERING

Registered:
37704 Hills Tech Drive
Farmington Hills, MI 48331
(248) 465-1000

Corporate Office:
3025 Highland Parkway, Suite 850
Downers Grove, IL 60515
info@sevan-engineering.com www.sevan-engineering.com

WITNESS REPORT | PRELIMINARY | EXHIBIT | CLOSURE

REVISIONS

NO.	DATE	DESCRIPTION
1	10/21/2024	OWNER REVIEW
2	10/25/2024	SITE PLAN REVIEW
3	10/29/2024	SITE PLAN REVIEW #1

CONSULTANT

SEAL

TIMOTHY B. #0472
Engineer
No. 620192109
Exp. 12/31/2026
Sep 28, 2020

CUSTOMER

jiffylube

PROJECT DESCRIPTION

**JIFFY LUBE
MULTI-CARE SERVICES**

PROJECT LOCATION

9701 BELLEVILLE RD
VAN BUREN CHARTER
TOWNSHIP, MI 48111
(WAYNE COUNTY)

SHEET TITLE

**SOIL EROSION AND SEDIMENT
CONTROL PLAN**

SHEET MANAGEMENT

PROJECT NO.: 072, BELLEVILLE
DATE: 10/21/2024
PROJECT MANAGER: M. POKO
DESIGNED BY: M. POKO
CHECKED BY: M. POKO
APPROVED BY: M. POKO
REVISIONS: 10/21/2024, 10/25/2024, 10/29/2024

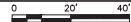
SHEET NUMBER

C1.11

MISS DIG
3 WORKING DAYS
BEFORE YOU DIG
OR DRILL
CALL
1-800-482-7171
(TOLL FREE)



SCALE: 1" = 20'-0"



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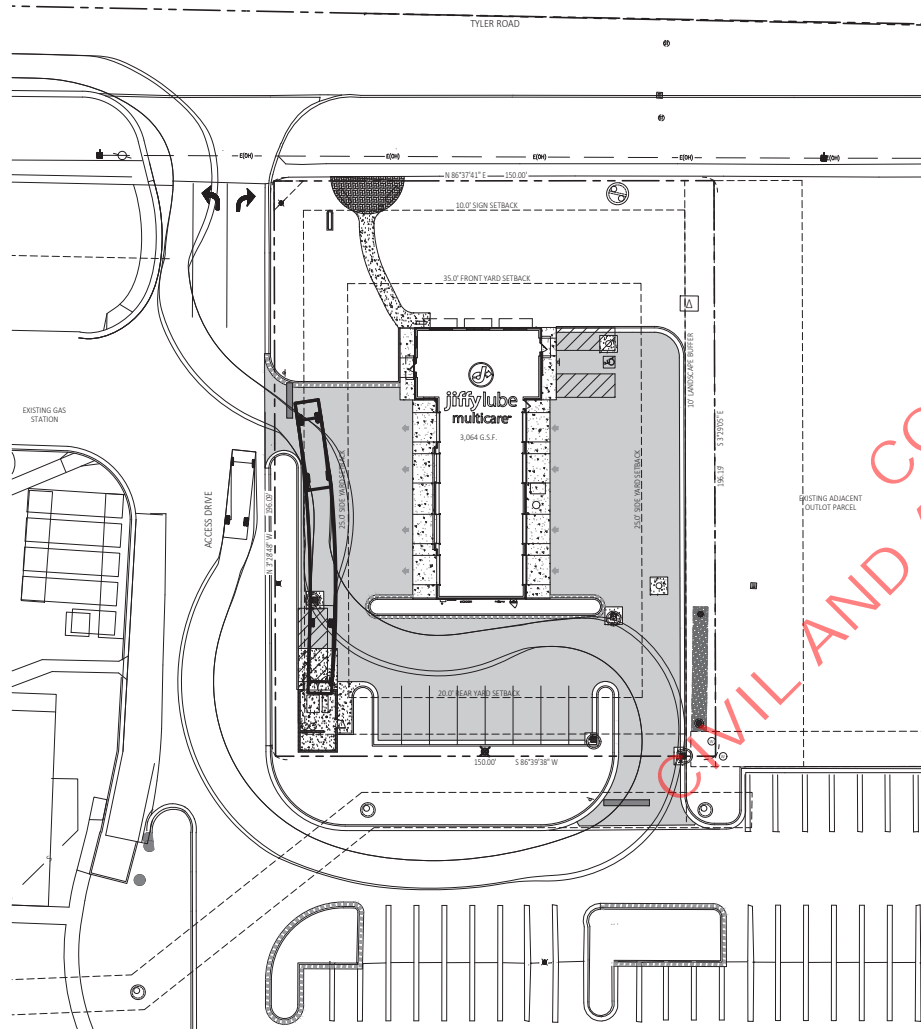
JIFFY LUBE
MULTI-CARE SERVICE

9701 BELLEVILLE RD
VAN BUREN CHARTER
TOWNSHIP, MI 48111
(WAYNE COUNTY)

TRUCK TURN
PLAN

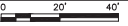
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DATE:		
CRITERIA:		
PROJECT MANAGER:	M. PIS	
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C1.21



TRUCK TURN PLAN
SCALE: 1" = 20'-0"

MEUER STORE LOT
PIN: 830589900067

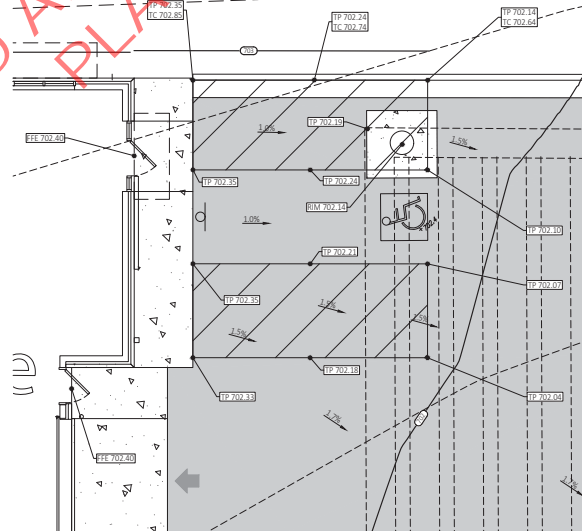
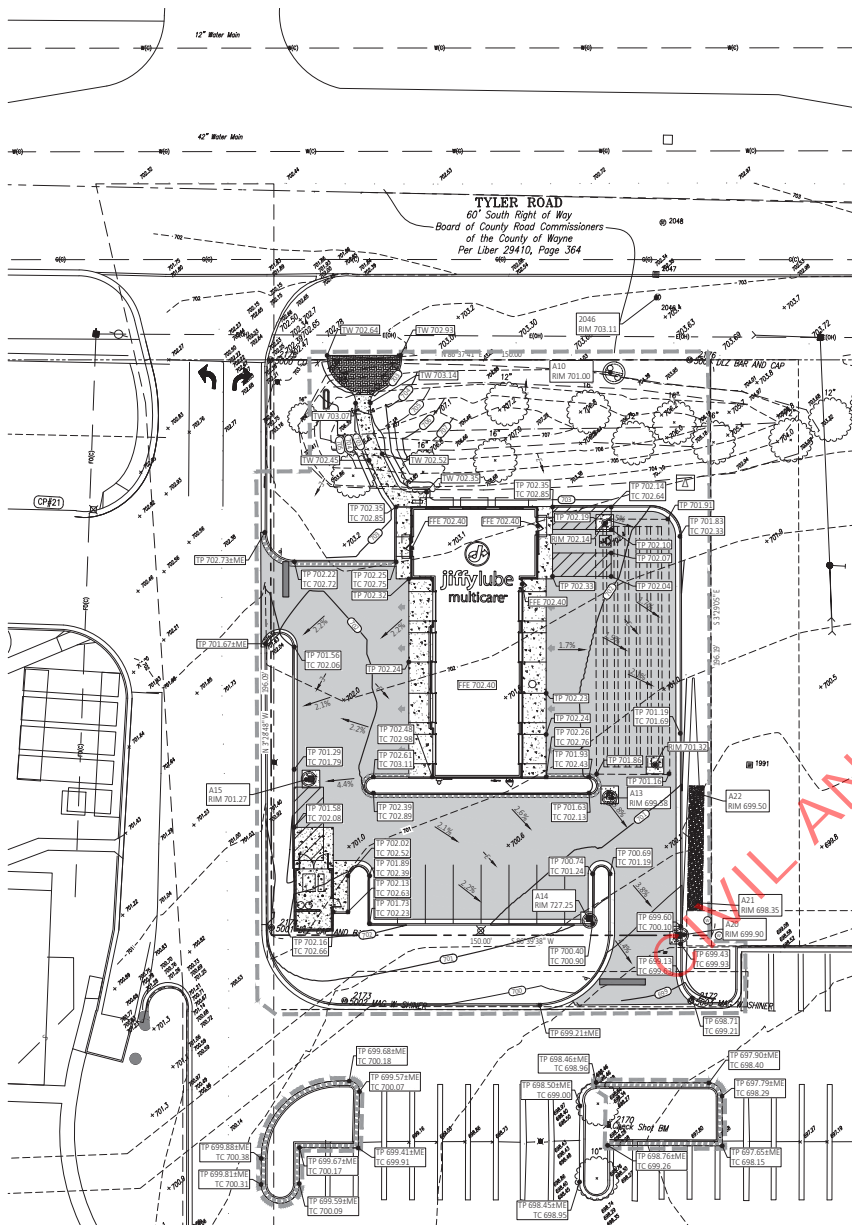


30' LANDSCAPE BUFFER

30' x 100'

EXISTING ADJACENT OUTLOT PARCEL

COPY AND ARCHITECTURAL PLANS

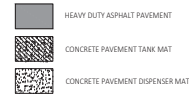


BENCHMARKS:

AS PER SURVEY NOTES:

THE SITE BENCHMARK IS A CUT SQUARE ON BACK OF CURB LOCATED NEAR THE SOUTH LINE OF THE SURVEYED PARCEL AS SHOWN HEREIN. SITE BENCHMARK ELEVATION: 698.79' (NAVOD83)

PAVING LEGEND:



GRADING NOTES:

1. VERIFY REQUIRED SPOT ELEVATIONS/GRADING IN THE VICINITY OF THE BUILDING WITH THE ARCHITECTURAL PLANS.
2. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE DRAWINGS AND PROJECT MANUAL, AND WITH LOCAL JURISDICTIONAL AUTHORITY STANDARDS AND SPECIFICATIONS.
3. ALL PROPOSED SPOT ELEVATIONS IN PAVED AREAS ARE TO TOP OF PAVEMENT UNLESS NOTED OTHERWISE.
4. THE PROJECT SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES, ENSURING NO AREAS OF STANDING WATER.
5. THE GENERAL CONTRACTOR SHALL, AT HIS OR HER EXPENSE, RESTORE ANY AND ALL STRUCTURES, PIPE, UTILITY, PAVEMENT, CURB, SIDEWALK, LANDSCAPED AREA, ETC. DISTURBED WITHIN THE SITE AND/OR ADJOINING PROPERTIES DURING DEMOLITION OR CONSTRUCTION. SUCH FACILITIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE AFFECTED OWNERS.
6. UNDERDRAINS MAY BE ADDED, IF DETERMINED NECESSARY BY THE GENERAL CONTRACTOR AND AUTHORIZED BY THE OWNER'S REPRESENTATIVE, AFTER SUBGRADE IS ROUGH GRADED.
7. UNLESS OTHERWISE EXPRESSLY INDICATED HEREON, FINISHED GRADES ARE TO MATCH ADJACENT EXISTING GRADES.
8. THE GENERAL CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. SEE SPEC PLAN ON SHEET CL13 FOR LIMIT OF DISTURBANCE. PROTECT EXISTING TREES TO REMAIN WITH TEMPORARY FENCING PLACED AT THE DRIP LINE. NO GROUND DISTURBANCE OR STORAGE OF MATERIAL SHALL OCCUR WITHIN THE DRIP LINE LIMITS, UNLESS HERON EXPRESSLY INDICATED OTHERWISE.
9. ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS AND MATERIALS OF CONSTRUCTION TO COMPLETE THE CONSTRUCTION PER THE DRAWINGS AND PROJECT MANUAL. ADDITIONALLY, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF EXCESS OR UNSTABLE MATERIAL, AS WELL AS THE IMPORTATION OF ANY BROWNE MATERIAL NECESSARY TO COMPLETE THE PROJECT.
10. PER TOWNSHIP STANDARDS, ALL STORMWATER RUNOFF SHALL BE CONTAINED AND COLLECTED ON-SITE TO BE CONVEYED UNDERGROUND TO THE EXISTING STORMWATER MANAGEMENT SYSTEM.

SITE SPECIFIC GRADING GENERAL NOTES:

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY EXISTING SITE IMPROVEMENTS THAT MAY BE DISTURBED DURING CONSTRUCTION. THIS SHALL INCLUDE, AND IS NOT NECESSARILY LIMITED TO:

- (A) EXISTING CURB THAT MAY BE DISTURBED
- (B) EXISTING ASPHALT THAT MAY BE DISTURBED
- (C) EXISTING LANDSCAPING
- (D) EXISTING LIGHT STANDARDS AND WIRING

GRADING LEGEND:

- TG GUTTER GRADE
- TC TOP OF CURB
- FG FINISHED GRADE AT WALL
- FG FINISHED GRADE
- FL DITCH FLOW LINE
- TP TOP OF PAVEMENT
- RM UNDERGROUND STRUCTURE RIM
- TW TOP OF WALK
- FTE FINISHED FLOOR ELEVATION
- ME MATCH EXISTING
- 2.0% PROPOSED SLOPE
- DIRECTION OF PROPOSED OVERLAND FLOW
- DIRECTION OF EXISTING OVERLAND FLOW

GRADING PLAN
SCALE: 1" = 30' 0"

0 20' 40'

ENLARGED GRADING PLAN
SCALE: 1" = 5' 0"

0 20' 40'

sevan
ENGINEERING

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Downers Grove, IL 60515
info@sevan-engineering.com www.sevan-engineering.com
WISCONSIN REPORT | ILLINOIS REPORT | INDIANAPOLIS | INDIANAPOLIS | INDIANAPOLIS

REVISIONS

NO.	DATE	DESCRIPTION
0	05.01.2020	OWNER REVIEW
1	05.20.2020	SITE PLAN REVIEW
2	09.01.2020	SITE PLAN REVIEW #1

CONSULTANT



CUSTOMER
jiffylube
MULTI-CARE SERVICES

PROJECT DESCRIPTION
JIFFY LUBE
MULTI-CARE SERVICES

PROJECT LOCATION
9701 BELLEVILLE RD
VAN BUREN CHARTER
TOWNSHIP, MI 48111
(WAYNE COUNTY)

SHEET TITLE
GRADING PLAN

SHEET MANAGEMENT
PROJECT NO.: 072, BELLEVILLE
DATE: 05/01/2020
PROJECT MANAGER: M. POKO
PROJECT ENGINEER: M. POKO

SHEET NUMBER
C1.30



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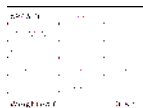
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DECLARATION OF INTEREST

of these results, we have shown that the use of the proposed method can significantly reduce the number of iterations required to reach a solution, and that the use of the proposed method can significantly reduce the number of iterations required to reach a solution.

C1.32



1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
 9. **Figure 1**
 10. **Figure 2**
 11. **Figure 3**
 12. **Figure 4**
 13. **Figure 5**
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 216. **Figure 208**
 217. **Figure 209**

DYDOS

Design Your Own Detention System



CONTECH

CUP DETENTION SYSTEM



For design assistance, drawings and pricing send completed worksheet to:
dydos@contech-cup.com

Project Summary

Project Name: 1000000
City / Country: San Juan, P.R. / Virginia
Size: 10
Designed By: Senior
Company:

Estimated Metal Pipe Calculator

Storage Volume Required (c3)	1,120
Limiting Width (ft)	1.00
Insert Depth Below Asphalt (ft)	0.20
Insert or Perforated Pipe	1.00
Shape of Cylinder (in)	1.00
Number of Holes	1.00
Spacing Between Holes (in)	1.00
Shallow Widths Allowed Permitted (ft)	1.00
Depth A: Porous Stone Above Pipe (in)	1.00
Depth C: Porous Stone Below Pipe (in)	1.00
Stone Porosity (in 41%)	1.00

System Rating

Peak Storage	1,000
Peak Storm Storage	0
Total Storage Provided	1,000
Number of Storms	1
Length per Storm	0.0
Length per Hopper	0.0
Rectangular Footing (ft x ft)	20 x 10

Enter Information of Blue Cells



System Layout

Storm 1	10
Storm 2	10
Storm 3	10
Storm 4	10
Storm 5	10
Storm 6	10
Storm 7	10
Storm 8	10
Storm 9	10
Storm 10	10

CONTECH Materials

Total Cell Footage: 224 ft
Approximate Total Pipes: 20 ft
Approximate Covering Stones: 20 ft
Approximate Traps: 2 traps

Construction Guidelines

Total Cell Footage: 224 ft
Porous Stone Backfill For Storage: 0 ft
Backfill to Grade Extending Stone: 20 ft
*Construction quantities are approximate and should be verified: www.frost.com

UNDERGROUND DETENTION CALCULATIONS



POLE LINE IS CENTER LINE OF DETROIT
EDISON & MICHIGAN BELL EASEMENT
(NO WIDTH SPECIFIED) LIBER 18294,
PAGE 552 & LIBER 18332, PAGE 676

EXISTING ADJACENT OUTLOT PARCEL

W — W

17. UTILITY COMPANY TO PROVIDE TRANSFORMER PAD TEMPLATE TO CONTRACTOR FOR CONTRACTOR STUMP-UP LOCATIONS. GENERAL CONTRACTOR TO PROVIDE AND INSTALL PRE-CAST CONCRETE PAD. COORDINATE WITH THE JEFF LY LAYOUT.
18. OILWATER SEPARATORS. SEE ARCHITECTURAL PLANS.
19. SUMP PIT. SEE ARCHITECTURAL PLANS.
20. INSTALLING 1 1/4" GAS SERVICE. COORDINATE SERVICE WITH UTILITY COMPANY.
21. PROVIDE AND INSTALL (2) 2" SCHEDULE 40 PVC CONDUITS, (WITH TWO (2) FULL STRINGS) FOR THE 2" WIRE MOUNTED TO THE 1" WIRE LUGS AND TIGAS. FIELD VERIFY AND COORDINATE CABLE ROUTING WITH THE JEFF LY LAYOUT. CONSTRUCTION REPRESENTATIVE PRIOR TO PROCEEDING. REFER TO ARCHITECTURAL PLANS FOR STUMP-UP LOCATIONS AND ELECTRICAL LAYOUT.
22. PROVIDE AND INSTALL (2) 2" SCHEDULE 40 PVC CONDUITS FOR COMMUNICATION. FIELD VERIFY AND COORDINATE THE CABLE ROUTING WITH THE JEFF LY LAYOUT. CONSTRUCTION REPRESENTATIVE BEFORE PROCEEDING.
23. PROVIDE AND INSTALL 2" COPPER TYPE 1 WATER SERVICE LINE (BAM, DEPTH 5.0'). PROVIDE A CLEAN CUT AT ALL UTILITY CROSSINGS. MAKE CONNECTION AT EXISTING SERVICE LINE FOR REQUIRED STANDARDS.
24. ROOF CONDUITS. SEE SHEET C1.33 FOR ROOF PENMETER AND SLOPE.
25. PROVIDE AND INSTALL 1" PVC 50# SDR 35 SANITARY SERVICE AT 2" SLOPE WITH CLEANOUTS 5.0' DEPTH. PROVIDE CLEANOUTS AT 5.0' DEPTH. FIELD VERIFY AND REFER TO BIDDING PER DETAIL C3.10. THE EXISTING SANITARY LINE. MAKE CONNECTION TO EXISTING SANITARY LINE FOR REQUIRED STANDARDS.
26. STORMWATER MANAGEMENT SYSTEM. REFER TO C1.31.
27. CURB STOP BOX. INSTALL PER REQUIRED STANDARDS.
28. PROVIDE AND INSTALL (2) 1" PVC 50# SD 35 CONDUITS TO SITE OF SIGNAL. SEE ELECTRICAL PLANS.
29. PROVIDE AND INSTALL (1) 1" PVC 50# SD 35 CONDUITS FOR DRIVE SIGNAL CABLE BELL. DRIVE SIGNAL CABLE CURB AT CABLE. VERIFY LOCATION WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
30. LOCATE AND MAINTAIN EXISTING ELECTRICAL LINE TO PARKING LOT.
31. UNDERGROUND DETENTION. REFER TO C1.31 AND C1.32.
32. APPROXIMATE LOCATION OF EXISTING GAS SERVICE. VERIFY IN FIELD.

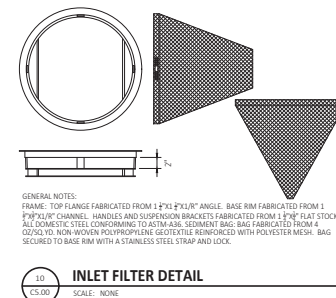
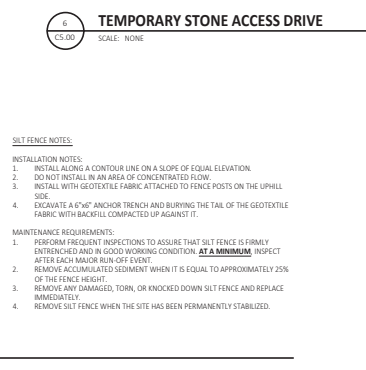
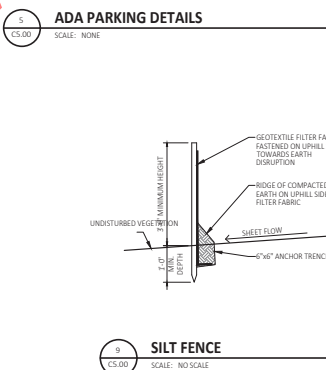
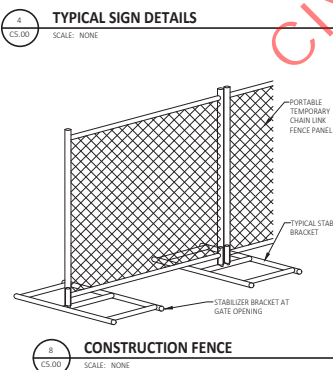
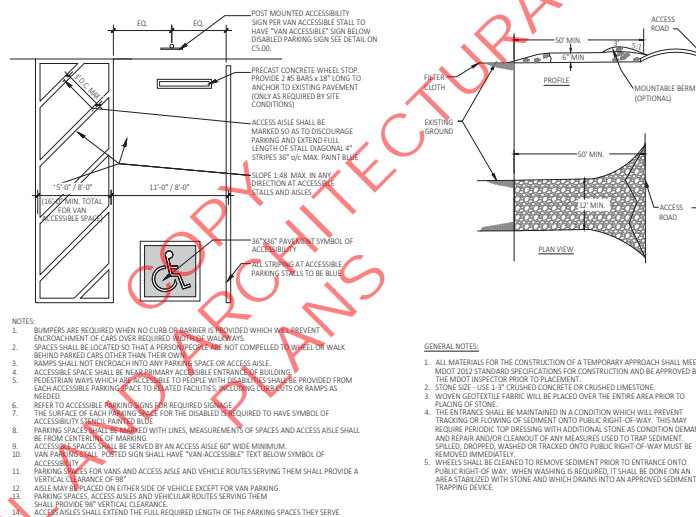
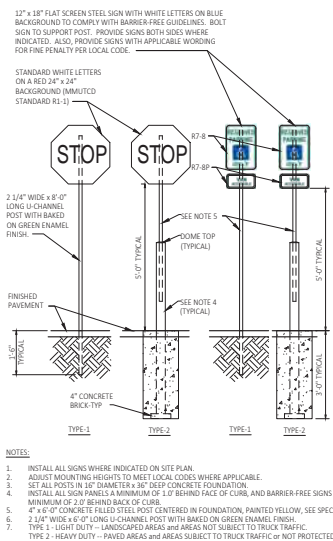
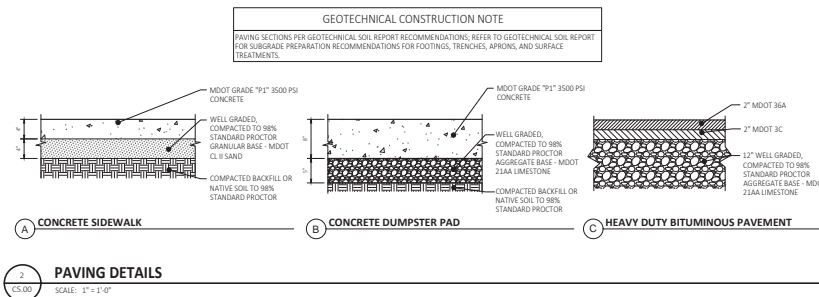
UTILITY EASEMENT NOTE:
REFER TO THE BOUNDARY/TOPOGRAPHIC SURVEY PREPARED BY DLZ INDUSTRIAL SURVEYING FOR
INFORMATION REGARDING EXISTING EASEMENTS.

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LEGEND

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FILE NAME: Y:\Shared\Drawings\MyJobs\Projects\01072_Bellevue Road\02_Civil\01\Drawings\LAST SAVED BY: Srinetia, John SAVED DATE: 9/21/2020 4:03 PM PLOTTED: 9/28/2020 7:48 AM



4
CIVIL

SANITARY SEWER MANHOLE

SCALE: NO SCALE



SEEDING NOTES

SEED INSTALLATION

1. APPLY STARTER FERTILIZER AT TIME OF SEEDING AT RATE RECOMMENDED BY MANUFACTURER. CONTRACTOR IS RESPONSIBLE FOR THE INITIAL WATERING.
2. SEED WITH COMMERCIAL TURF BLEND FROM APPROVED LIST OF MIXTURES.
3. MAXIMUM SEEDING DEPTH SHOULD BE 1/4 INCH ON CLAY SOILS AND 1/2 INCH ON SANDY SOILS. WHEN USING OTHER THAN HYDROSEEDER METHOD OF APPLICATION, STRAW MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING (NOW HYDROSEEDING) AT A RATE OF 140 LBS./1.2 ACRES PER 1000 SF. MULCH MAY BE APPLIED BY HAND OR WITH A BLOWER.
4. MULCH SHALL BE CLEAN, WELL SEASONED STRAW FREE OF SEEDS OR ROOTS OF NOXIOUS WEEDS.
5. IF HYDROSEEDING IS USED AND THE SEED, FERTILIZER AND MULCH ARE MIXED, THEY WILL BE MIXED ON SITE AND SEEDING SHALL BE IMMEDIATE. MULCH FOR HYDROSEEDING SHALL BE WOOD CELLULOSE FIBER MULCH APPLIED AT A RATE OF 2,000 LBS./ACRE.

SEEDING NOTES CONTINUED

SITE PREPARATION

1. SITE TO BE FINE GRADED BEFORE PERMANENT SEEDING OR SOODING.
 2. SOIL SHALL BE LOOSENED TO A DEPTH OF (4) INCHES BY DISCING, BROWING, ROTOTILLING OR OTHER ACCEPTABLE MEANS, AND RAKED SMOOTH AND FREE OF ROOTS AND STONES OVER 1/8". SEED ALL ON-SITE AND OFF-SITE AREAS DISTURBED BY CONSTRUCTION.
 3. ENSURE PROPER DRAINAGE AND CHANNEL FLOW PROTECTION.
- ### MAINTENANCE:
1. WATER 1 INCH MIN. WITHIN THE FIRST HOUR OF SOO OR SEED INSTALLATION BEGIN IRRIGATION SYSTEM DURING THE FOLLOWING 3 DAYS KEEPING THE SOODED OR SEED AREA MOIST.
 2. CONTINUED MAINTENANCE (MOWING, FERTILIZATION, WEEDING, ETC.) OF THE SOODED OR SEED AREA SHOULD BE PROVIDED BY A PROFESSIONAL LANDSCAPE MAINTENANCE CONTRACTOR.

LANDSCAPE MATERIAL LEGEND				
KEY	QUANTITY	BOTANICAL NAME COMMON NAME	SIZE CONDITION	NOTES
IG 19	1	ILEX GLABRA HAWTHORN HOLLY	30" min.	EVERGREEN HEDGE Towards BROOD: SECTION 6.310
JP 29	1	JUNIPERUS V. "GOLD COAST" GOLD COAST JUMPER	18" 24" #8 gal	GOLDEN EVERGREEN FOLIAGE (15) Towards CODE 10.103(A) (5) Towards CODE 10.103(B) (5) Towards CODE 10.103(C)
EA 21	1	ELOMMIDUS ALATUS BURNING BUSH	24" 36" #5 gal	ORNAAMENTAL GRASS
CA 22	1	CLAMAGASTOS ACUTIFOLIA KARL FORSTER FEATHER REED GRASS	12" 15" 2 gal	ORNAAMENTAL GRASS
SI 11	1	SPHAKIA GOLD MOUND SPHAKIA	8" 10" #3 gal	GOLDEN FOLIAGE WITH PINK BLOOMS
PA 9	1	RUDOLPHIA D. "ROYAL RED" ROYAL RED BUTTERFLY BUSH	6" 7" #6B	FLOWERING PERENNIAL Towards BROOD: SECTION 6.310
FO 30	1	FOSTICIA O. "BOULDER BLUE" BOULDER BLUE FESCUE	6" 7" #6B	ORNAAMENTAL GRASS
IV 10	1	JUNIPERUS V. "EMERALD SENTINEL" EMERALD SENTINEL RED CEDAR	5' 8" #6B	Towards CODE 10.103 (C)
CC 5	1	CERCIS CANADENSIS EASTERN RED BUD	2" cal. #6B	(2) Towards CODE 10.103(B) (1) Towards CODE 10.103(A) (2) Towards CODE 10.103 (E)
GT 7	1	GLEDTIA T. F. "INERMIS" SKYCOLE SKYLINE HONEYLOCUST	2" cal. #6B	(4) Towards CODE 6.310(C)(2)(B) (5) Towards CODE 10.103 (E)
MR 14	1	MAIUS "RED BARON" RED BARON CANNADY	2" cal. #6B	(15) Tow. Tow. CODE 10.103 (E)
EXO 1	1	EXISTING ORNAAMENTAL	25" 30" #6B	Towards CODE 10.103 (A)
EXS 7	1	EXISTING SHADE TREES	10" - 18" CAL.	(4) Towards CODE 10.103(A) (5) Towards CODE 10.103 (E)

LANDSCAPE KEYNOTES

1. ALL EXISTING ON-SITE & ADJACENT TREES TO BE PROTECTED AND REMAIN.
2. TRIM AND/OR REMOVE OVERGROWN VEGETATION, FIELD VERIFY AND COORDINATE WITH OWNERS CONSTRUCTION REPRESENTATIVE.
3. OFF-SITE AREA FOR GRASS SEEDING.

GENERAL NOTES

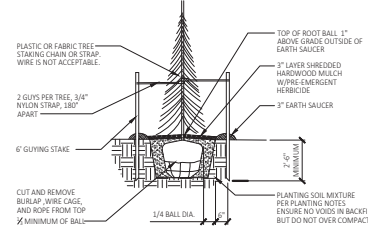
1. AT THE TIME OF SITE PREPARATION, CONTRACTOR SHALL (GENERAL GRADING & LANDSCAPE) TO REMAIN EXISTING VEGETATION, AND MAINTAIN THEM TO BE SAVED FOR PROTECTION.
2. PRIOR TO INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE EXISTING GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, ETC., AND APPROVE TOPOGRAPHY AND GENERAL CONSTRUCTION AND OBSERVE THE SITE CONDITIONS UNDER WHICH THIS WORK IS TO BE DONE. AFTER GENERAL CONSTRUCTION, THE LANDSCAPE CONTRACTOR SHALL VERIFY THE SITE CONDITIONS AND WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ACCEPTED TO THE LANDSCAPE CONTRACTOR.
3. IF THE LANDSCAPE CONTRACTOR OBSERVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS OR ANY OTHER CONDITION WHICH MAY NEGATIVELY AFFECT PLANT ESTABLISHMENT, SHALL, ON GUARANTEE, HE SHALL REPORT THE LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE PRIOR TO DOCUMENT AND/OR INSTALLATION.
4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, DO NOT PLANT TREES, SHRUBS, PERENNIALS, OR ANY OTHER EXISTING OR PROPOSED UTILITY LINES AS SHOWN ON THE OVERALL LANDSCAPE PLAN. ANY ITEM OR MATERIAL, WHICH IS NOT SPECIFIED IN THE CONTRACT, SHALL BE REPLACED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.
5. ALL PLANTING BEDS TO RECEIVE 6" MIN. OF PREPARED BACKFILL MIX. ALL INDIVIDUALLY PLANTED TREES AND SHRUBS TO BE BACKFILLED WITH PREPARED BACKFILL MIX. PREPARED BACKFILL MIXTURES SHALL BE MIXED ON SITE, CONSISTING OF ONE PART TOPSOIL, ONE PART SOIL AMENDMENT, ONE PART SOIL FROM EXCAVATION.
6. PLANT BEDS TO BE COVERED WITH PRE-EMERGENT HERBICIDE AND MULCHED WITH 3" OF SHREDED HARDWOOD WITHIN 4" DIAMETER BED WITH 3" MULCH RING.
7. ALL PLANTING BEDS TO BE SMOOTH FLOWING ARCS. BEDS TO BE LAID OUT AND APPROVED BY LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE PRIOR TO PLANTING. LAWN TREES TO BE MULCHED WITH 4" DIAMETER BED WITH 3" MULCH RING.
8. SEED OR SOO ALL AREAS WITHIN CONTRACT LIMITS, NOT COVERED BY PAVING, BUILDINGS OR PLANTING BEDS UNLESS OTHERWISE NOTED. SOODING SHALL NOT BEGIN UNTIL AREA HAS RECEIVED A FINISHED GRADE. SEE SOO/SEED NOTES.
9. SUBSTITUTIONS SHALL BE PERMITTED WITH NOTIFICATION AND WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE. SUBSTITUTED MATERIAL SHALL BE THE NEAREST EQUIVALENT SIZE, CONDITION AND GROWTH HABIT HAVING THE SAME ESSENTIAL CHARACTERISTICS AND BEING AVAILABLE IN REASONABLE QUANTITY.
10. LANDSCAPING TO COMPLY WITH ALL APPLICABLE ZONING REGULATIONS.

PLANTING NOTES

1. ALL TREES AND SHRUBS SHALL BE STAKED IN THE FIELD PER PROVIDED DETAILS.
2. PLANT MATERIAL SHALL CONFORM TO THE PLANT LIST AND KIPS ON THE DRAWINGS AND TO THE QUALITY STANDARDS OF AMERICAN STANDARD FOR NURSERY STOCK. ALL PLANTS SHALL BE EQUAL OR EXCEED THE MEASUREMENTS AND SIZES SPECIFIED IN THE SCHEDULE.
3. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THAN THE FOLLOWING DISTANCES FROM SIDEWALKS, CURBS, AND PARKING STALLS:
 - A. SHADE TREES: 5 FEET
 - B. ORNAAMENTAL AND EVERGREEN TREES: 10 FEET (CORN, PINE, SPRUCE, ETC.)
 - C. SHRUBS: 4 FEET
4. ALL SHRUB PLANTINGS WITHIN SITE TRIANGLE AREAS TO BE MAXIMUM HEIGHT OF 30" AND FIRST BRANCHING FOR PROPOSED TREES TO BE MINIMUM OF 7' ABOVE PROPOSED GRADES.
5. PLANTINGS SHALL BE FERTILIZED UPON INSTALLATION WITH A SLOW RELEASE GRANULAR COMMERICAL TREE/SHRUB FERTILIZER. RATE PER MANUFACTURERS INSTRUCTIONS. FERTILIZER TO MIXED WITH BACKFILL PREVIOUSLY DESCRIBED. FERTILIZER TABLETS ARE NOT ACCEPTABLE. PLANTING BEDS SHALL BE COVERED WITH PRE-EMERGENT HERBICIDE APPLIED AT PRODUCT SPECIFIED RATE UNLESS OTHERWISE NOTED.
6. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS INSTALLED FOR ONE FULL YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL PLANTS SHALL BE ALIVE AND AT A VIGOROUS RATE OF GROWTH AT THE END OF THE GUARANTEE PERIOD. UNACCEPTABLE PLANT MATERIAL THAT IS DETERMINED DEAD, IN AN UNHEALTHY OR UNUSUALLY CONDITION, LOST TO SHAPE DUE TO DEAD BRANCHES OR OTHER DEFICIENCY OR POOR, NON-VIGOROUS GROWTH, SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR.

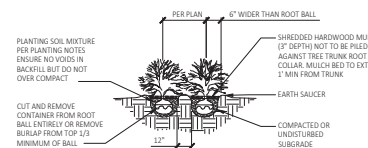
LANDSCAPE CODE REQUIREMENTS :

- 10.103(A) REQUIRES LOT FRONTAGE LANDSCAPING OF 1 DECIDUOUS TREE/1 LINEAL FEET + 1 ORNAAMENTAL TREE/20 LINEAL FEET + 8 SHRUBS/40 LINEAL FEET. THE SITE HAS A FRONTAGE OF 150' ON TYLER ROAD, WHICH REQUIRES A TOTAL OF 4 DECIDUOUS TREES + 2 ORNAAMENTAL TREES + 80 SHRUBS.
- (4) EXISTING DECIDUOUS TREES PROVIDED
- (1) EXISTING ORNAAMENTAL TREES PROVIDED
- (1) EXISTING SHRUBS PROVIDED
- SECTION 6.310 (C) (2) (B) STATES: IN ADDITION TO THE TREES REQUIRED IN THE FRONTAGE AREA IN SECTION 10.103(A), DECIDUOUS STREET TREES SHALL BE PLANTED WITHIN THE RIGHT-OF-WAY OF ANY STREET (I.E., BETWEEN THE SIDEWALK AND THE STREET), IN AN AMOUNT EQUAL TO AT LEAST ONE (1) DECIDUOUS STREET TREE PER EACH FOOT (40) LINEAL FEET OR FRACTION THEREOF. THIS REQUIRES ANOTHER 4 TREES BETWEEN THE TYLER ROAD RIGHT-OF-WAY AND THE EX. SIDEWALK.
- (4) TREES PROVIDED WITHIN THE ROW
- SECTION 10.103(B) REQUIRES ALL PLANTINGS TO BE LANDSCAPED AND SCREENED FROM ADDITIONAL PUBLIC OR PRIVATE RIGHTS-OF-WAY. LANDSCAPING SHALL INCLUDE A LANDSCAPED YARD AT LEAST FIVE (5) FEET IN WIDTH CONTAINING AN OPAQUE SCREEN OF LANDSCAPING (EVERGREEN OR DECIDUOUS HEDGE) AT LEAST THREE (3) FEET IN HEIGHT. THE HANDICAP ACCESSIBLE SPACE ON THE NORTHEAST CORNER OF THE BUILDING IS CLEARLY VIEWED FROM THEIR ROAD AND SHOULD BE SCREENED AS REQUIRED.
- SCREEN HEDGE HAS BEEN PROVIDED
- SECTION 10.103(B)(2) REQUIRES THE PROVISION OF LANDSCAPING WITHIN ISLANDS IN A PARKING LOT. INTERIOR LANDSCAPING SHALL ACCOUNT FOR A MINIMUM OF THE PERCENT (5%) OF ALL PAVED PARKING AREAS, INCLUDING PARKING AND LOADING SPACES, DRIVEWAYS, AND ALLEYS. THE APPLICANT MUST PROVIDE THE SQUARE FOOTAGE OF ALL PAVED AREAS, INCLUDING PARKING AND LOADING SPACES, DRIVEWAYS, AND ALLEYS. THERE ARE MULTIPLE INTERIOR PARKING LOT ISLANDS THROUGHOUT THE DEVELOPMENT. THE APPLICANT MUST PROVIDE THE TOTAL PROPOSED SQUARE FOOTAGE OF ALL THE INTERIOR PARKING LOT LANDSCAPE ISLANDS.
- TOTAL ON SITE PAVED AREA: 5,113.83 4" 05" 592' 4" REQUIRED
- TOTAL INTERIOR SPACE PROVIDED: 4,650' 4" REQUIRED
- ADDITIONALLY, ONE (1) DECIDUOUS TREE SHALL BE PLANTED FOR EACH THREE HUNDRED (300) SQUARE FEET OF INTERIOR LANDSCAPING.
- TOTAL INTERIOR LANDSCAPE: 4,650' 4" / 300' = 15.5 TREES REQUIRED
- (1) DECIDUOUS TREES PROVIDED
- SECTION 10.103 (C) OF THE ZONING ORDINANCE REQUIRES AN OPAQUE WALL OR A GREENBELT FOR REQUIRED SCREENING.
- THE LOADING SPACE HAS BEEN IDENTIFIED AND SCREENED WITH 6' EVERGREEN PLANTINGS AND 24" GIVING STAKE.
- SECTION 10.103 (C) (2) (B) PROVIDES BUFFERING STANDARDS: A TEN (10) FOOT WIDE BUFFER, WITH ONE (1) TREE PER THIRTY (30) LINEAL FEET IS REQUIRED ON ALL SIDES OF THE PROPOSED DEVELOPMENT. A 30-FOOT WIDE BUFFER HAS BEEN PROVIDED ON ALL SIDES EXCEPT THE EAST SIDE LOT LINE. WITH 42' LINEAL FEET ON THE FRONT AND REAR LOT LINE, 5 GREENBELT TREES ARE REQUIRED; 4 TREES HAVE BEEN PROPOSED IN THE FRONT AND 2 TREES IN THE BACK. ADDITIONALLY, 6 TREES ARE REQUIRED ALONG THE WEST SIDE LOT LINE AND 7 TREES ARE REQUIRED ALONG THE EAST SIDE LOT LINE.
- NORTH PROPERTY LINE = 150' / 30' = 5 TREES REQUIRED (1) EXISTING TREES
- SOUTH PROPERTY LINE = 150' / 30' = 5 TREES REQUIRED (1) EXISTING TREES
- EAST PROPERTY LINE = 196' / 30' = 7 TREES REQUIRED (2) EXISTING TREES
- WEST PROPERTY LINE = 196' / 30' = 7 TREES REQUIRED (2) EXISTING TREES
- DEVELOPMENTS IN THE 2 DISTRICT REQUIRE CONTIGUOUS OUTDOOR SPACE, INDEPENDENT OF SIDEWALKS, PEDESTRIAN CIRCULATION AREAS AND REQUIRED LANDSCAPING, IN AN AMOUNT NOT LESS THAN ONE (1) SQUARE FOOT FOR EACH TWENTY-FIVE (25) SQUARE FEET OF PRINCIPAL BUILDING AREA AND IN NO CASE LESS THAN TWO HUNDRED FIFTY (250) SQUARE FEET IN TOTAL. BASED ON THE BUILDING SIZE THE REQUIRED OPEN SPACE IS UNDER THE 250 SQ. FT. THEREFORE 92 (250 SQ. FT.) OF OPEN SPACE IS THE MINIMUM REQUIRED FOR THE SITE.
- PRINCIPLE BUILDING: 2,064 SF / 25 = 82.56' 250' 4" REQUIRED
- 250' 4" PROVIDED OF OUTDOOR SPACE
- PERMANENT BEDS, PLANTED IN GROUPS, SHALL BE PLANTED IN TWENTY PERCENT (20%) OF THE REQUIRED LANDSCAPE FRONTAGE AREA DEFINED IN SECTION 10.103(A).
- 150' 0" OF FRONTAGE * (.2) = 30' 0" OF FRONTAGE
- 65.0' OF PERMANENT BEDS PLANTED ALONG FRONTAGE
- A MINIMUM EIGHT (8) FOOT STREET LANE, FIVE (5) FOOT WIDE SIDEWALK, AND FIVE (5) FOOT BUFFER AREA BETWEEN THE OFF-STREET PARKING AND/OR VEHICLE USE AREA AND THE SIDEWALK SHALL BE PROVIDED. THE STREET LANE SHALL INCLUDE TREES IN CONFORMANCE WITH THE MEASUREMENTS AND SIZES SPECIFIED IN THE SCHEDULE. THE LENGTH OF THE PARKING LOT, AND INCLUDE AN OPAQUE SCREEN OF LANDSCAPING AT LEAST THREE (3) FEET IN HEIGHT. THE OPAQUE LANDSCAPE SCREEN SHALL BE COMPOSED OF UPRIGHT SHRUBS PLANTED AS A HEDGE. THE HEDGE SHALL ATTAIN OPACITY AND HEIGHT OF THREE (3) FEET WITHIN TWELVE (12) MONTHS OF PLANTING UNDER NORMAL GROWING CONDITIONS.
- A 30" EVERGREEN HEDGE IS PROPOSED ALONG THE SOUTHERN PARKING SPACES
- TREE REMOVAL PERMIT: A TREE REMOVAL PERMIT IS REQUIRED IF THE APPLICANT PROPOSES TO REMOVE TREES OF 3" CALIBER OR LARGER. THE SITE INCLUDES A ROW OF ESTABLISHED TREES ALONG ITS TYLER ROAD FRONTAGE. THE REST OF THE SITE IS A GRASSY AREA. ALL TREES ALONG TYLER ARE TO BE PROTECTED & PRESERVED.



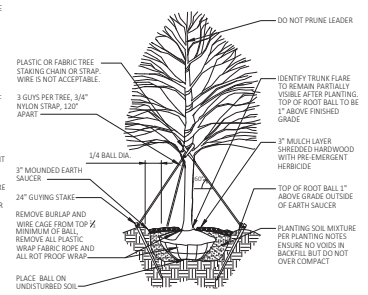
EVERGREEN TREE PLANTING

SCALE: NO SCALE



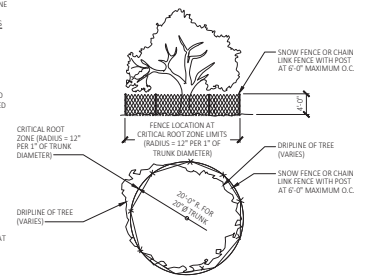
TYPICAL SHRUB PLANTING

SCALE: NO SCALE



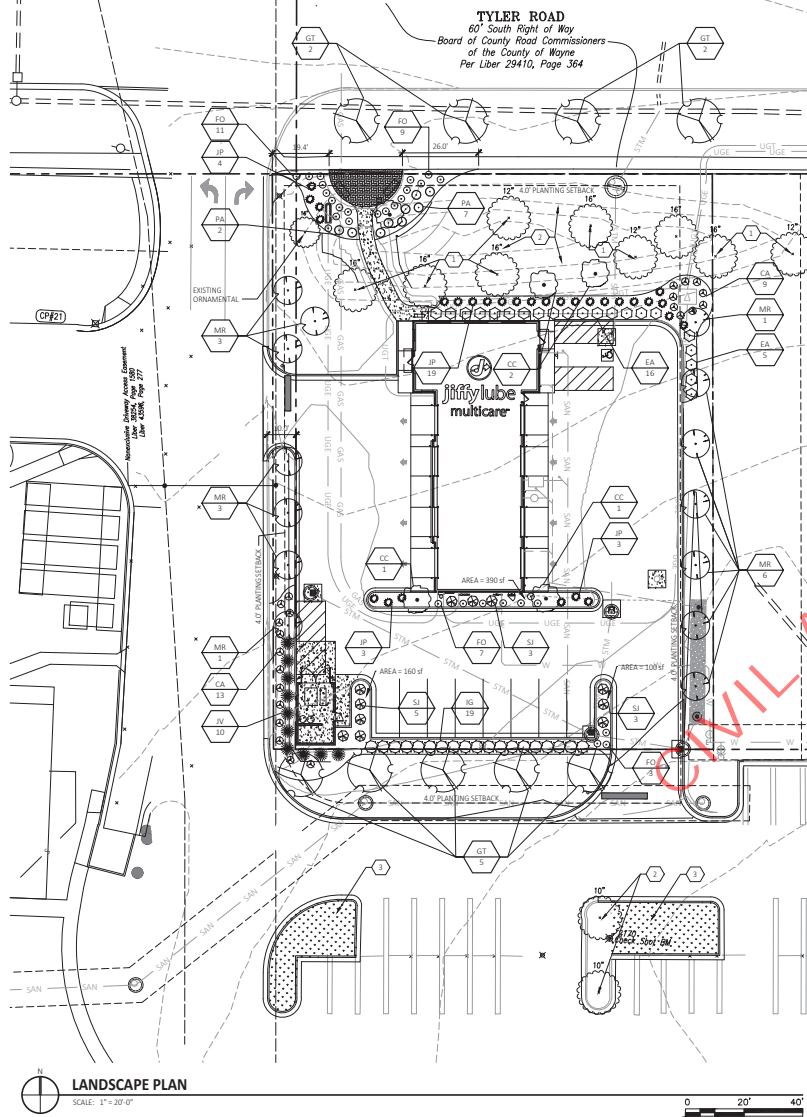
DECIDUOUS TREE PLANTING

SCALE: NO SCALE



TREE PROTECTION FENCING

SCALE: NO SCALE



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REVISIONS

NO.	DATE	DESCRIPTION
1	05.01.2020	OWNER REVIEW
2	05.20.2020	SITE PLAN REVIEW
3	09.21.2020	SITE PLAN REVIEW #1

CONSULTANT



CUSTOMER

jiffylube

MULTI-CARE SERVICES

PROJECT LOCATION

9701 BELLEVILLE RD
VAN BUREN CHARTER
TOWNSHIP, MI 48111

(WAYNE COUNTY)

SHEET TITLE

LANDSCAPE PLAN, NOTES AND SCHEDULE

SHEET MANAGEMENT

PROJECT NO.	072, BELLEVILLE
CITY	CENTRIA
PROJECT MANAGER	M. POKO

SHEET NUMBER

L1.20

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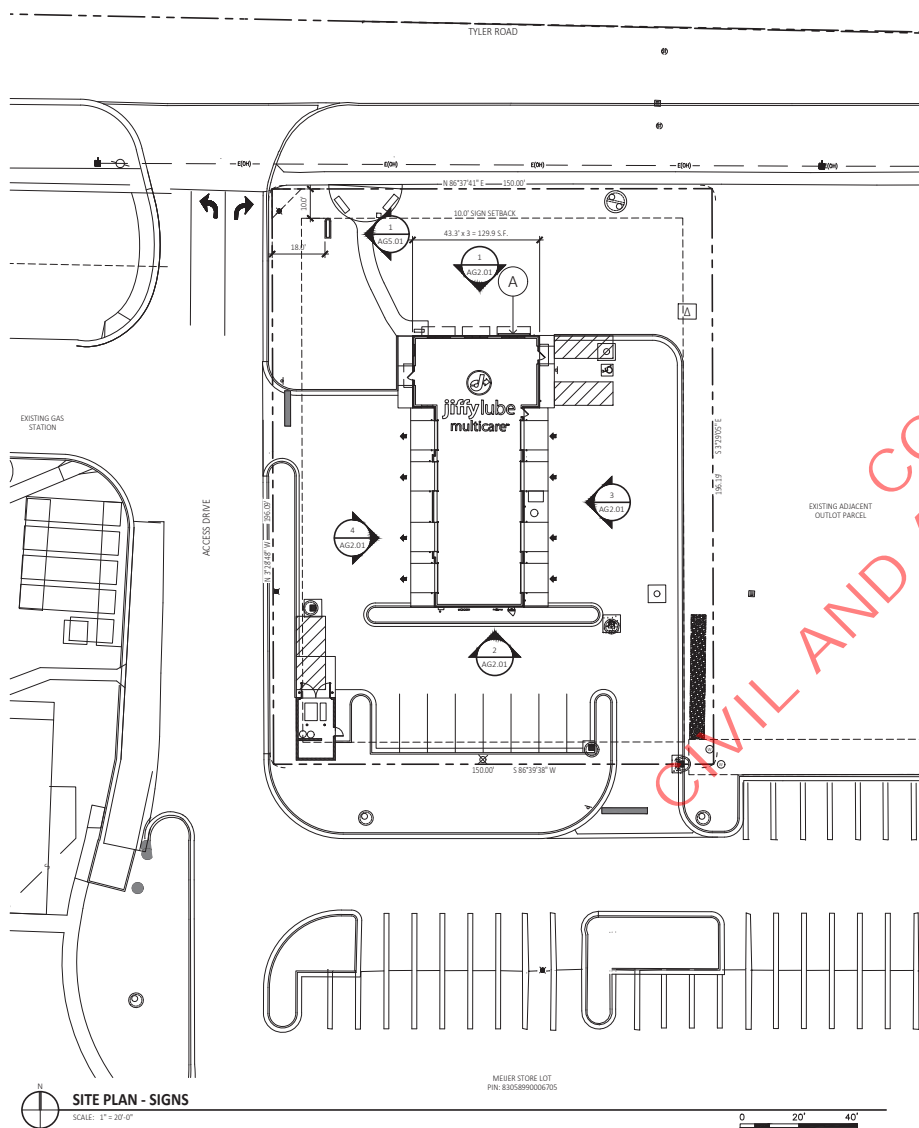
JIFFY LUBE
MULTI-CARE SERVICE

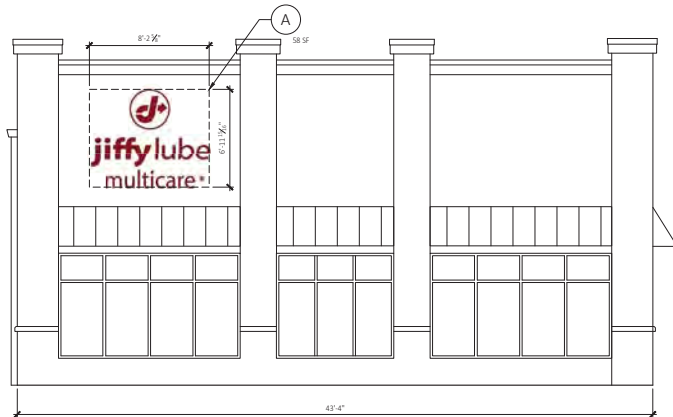
PROJECT LOCATION
9701 BELLEVILLE RD VAN BUREN CHARTER TOWNSHIP, MI 48111
(WAYNE COUNTY)

SITE PLAN - SIGNS

SHEET MANAGEMENT	
PROJECT NO.:	072 BELLEVILLE
DATE:	
CRITERIA:	
PROJECT MANAGER:	M. PISANO
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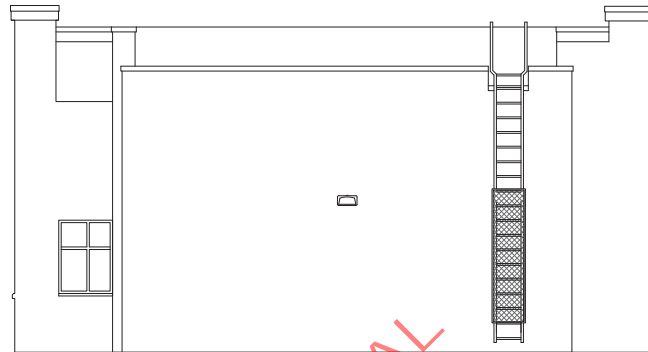
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1 FRONT ELEVATION (NORTH) - EXTERIOR GRAPHICS

SCALE: 1/4\" = 1'-0\"



2 REAR ELEVATION (SOUTH) - EXTERIOR GRAPHICS

SCALE: 1/4\" = 1'-0\"

- 1. FIREWORKS RED SW 6867
- 2. COLONIAL REVIVAL SW 2827
- 3. PURE WHITE SW 7005
- 4. CARMINE RED SW 2905

SIGN CALCULATIONS:

BUILDING:
ALLOWABLE: 3 S.F. PER LINEAR FOOT OF BUILDING FRONTAGE NOT TO EXCEED 300 S.F. PER BUSINESS OR SIGN OF THE FACADE EXCLUSIVE OF WINDOW AND DOOR OPENINGS.

BUILDING FRONTAGE (TYLER ROAD): 43.3' x 3 S.F. = 129.9 S.F.

OR

BUILDING FRONT FACADE: (978 S.F. - 235 S.F. (WINDOWS)) 743 S.F. x .5 = 371.5 S.F.

FRONT ELEVATION (TYLER STREET): 58 S.F.

LEFT ELEVATION (FACING ADJACENT OUTLOT): 0 S.F.

RIGHT ELEVATION (FACING ACCESS DRIVE): 0 S.F.

REAR ELEVATION (FACING MEIERS): 0 S.F.

TOTAL BUILDING SIGNS PROVIDED: 58 S.F.

MONUMENT:

ALLOWABLE:

AREA = 30 S.F.

HEIGHT = 8'

PROVIDED:

AREA = 25 S.F.

HEIGHT = 8'



3 SIDE ELEVATION (EAST) - EXTERIOR GRAPHICS

SCALE: 1/4\" = 1'-0\"



4 SIDE ELEVATION (WEST) - EXTERIOR GRAPHICS

SCALE: 1/4\" = 1'-0\"

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REVISIONS

NO. DATE DESCRIPTION

1 05/20/2020 SITE PLAN REVIEW

2 09/21/2020 SITE PLAN REVIEW #1

3 10/21/2020 SITE PLAN REVIEW #2

4 11/11/2020 SITE PLAN REVIEW #3

5 12/11/2020 SITE PLAN REVIEW #4

6 01/11/2021 SITE PLAN REVIEW #5

7 02/11/2021 SITE PLAN REVIEW #6

8 03/11/2021 SITE PLAN REVIEW #7

9 04/11/2021 SITE PLAN REVIEW #8

10 05/11/2021 SITE PLAN REVIEW #9

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81 04/11/2027 SITE PLAN REVIEW #80

82 05/11/2027 SITE PLAN REVIEW #81

83 06/11/2027 SITE PLAN REVIEW #82

84 07/11/2027 SITE PLAN REVIEW #83

85 08/11/2027 SITE PLAN REVIEW #84

86 09/11/2027 SITE PLAN REVIEW #85

87 10/11/2027 SITE PLAN REVIEW #86

88 11/11/2027 SITE PLAN REVIEW #87

89 12/11/2027 SITE PLAN REVIEW #88

90 01/11/2028 SITE PLAN REVIEW #89

91 02/11/2028 SITE PLAN REVIEW #90

92 03/11/2028 SITE PLAN REVIEW #91

93 04/11/2028 SITE PLAN REVIEW #92

94 05/11/2028 SITE PLAN REVIEW #93

95 06/11/2028 SITE PLAN REVIEW #94

96 07/11/2028 SITE PLAN REVIEW #95

97 08/11/2028 SITE PLAN REVIEW #96

98 09/11/2028 SITE PLAN REVIEW #97

99 10/11/2028 SITE PLAN REVIEW #98

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101 12/11/2028 SITE PLAN REVIEW #100

102 01/11/2029 SITE PLAN REVIEW #101

103 02/11/2029 SITE PLAN REVIEW #102

104 03/11/2029 SITE PLAN REVIEW #103

105 04/11/2029 SITE PLAN REVIEW #104

106 05/11/2029 SITE PLAN REVIEW #105

107 06/11/2029 SITE PLAN REVIEW #106

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124 11/11/2030 SITE PLAN REVIEW #123

125 12/11/2030 SITE PLAN REVIEW #124

126 01/11/2031 SITE PLAN REVIEW #125

127 02/11/2031 SITE PLAN REVIEW #126

128 03/11/2031 SITE PLAN REVIEW #127

129 04/11/2031 SITE PLAN REVIEW #128

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131 06/11/2031 SITE PLAN REVIEW #130

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140 03/11/2032 SITE PLAN REVIEW #139

141 04/11/2032 SITE PLAN REVIEW #140

142 05/11/2032 SITE PLAN REVIEW #141

143 06/11/2032 SITE PLAN REVIEW #142

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165 04/11/2034 SITE PLAN REVIEW #164

166 05/11/2034 SITE PLAN REVIEW #165

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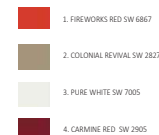
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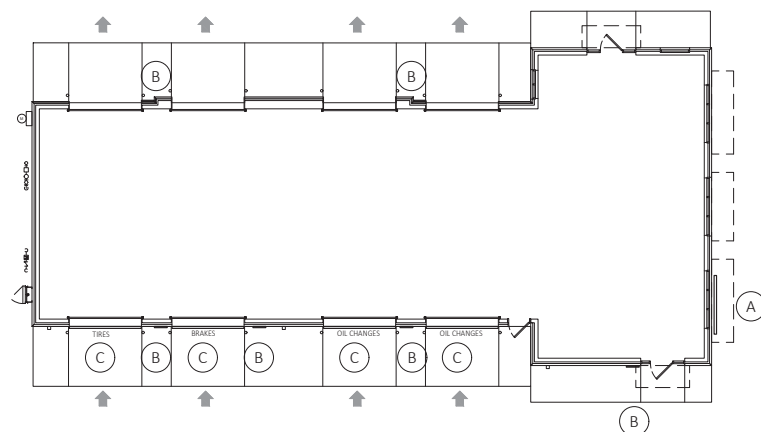


 BAY PANELS WITH DIRECTIONAL TEXT



ADDRESS NUMBERS TO BE 3/8" THICK FLAT CUT OUT ACRYLIC
PAINTED BLACK - FLUSH MOUNTED TO SURFACE

STEEL PIPE SET INTO CONCRETE
PIER TYPE FOUNDATION
ENGINEERING TO DETERMINE
IF SIZE & DEPTH IS ADEQUATE
FOR LOCAL CODES & CONDITIONS



SIGN KEY PLAN
SCALE: 1/8" = 1'-0"

1
AGS.01

MONUMENT SIGN ELEVATION

SCALE: 1/2" = 1'-0"

Seamless	6-point	10-point	100-point	100-point	100-point	100-point
Strongly disagree	+	1.00	0.00	0.00	0.00	0.00
Disagree	+	2.50	0.00	0.00	0.00	0.00
Neutral	+	3.00	0.00	0.00	0.00	0.00
Agree	+	3.50	0.00	0.00	0.00	0.00
Strongly agree	+	4.00	0.00	0.00	0.00	0.00

Location	Number of Locations
Off-Street Parking Area:	13
Off-Street Loading Area:	1
Sidewalks (Residential Areas-Public only where required by the Ordinance or the Planning Commission)	13
Sidewalks (Non-Residential Areas)	10
Building Entrances (Frequent Use)	50
Building Entrances (Infrequent Use)	10
Gas Station (Directly Under Canopy)	20
Other Outdoor Areas Not Listed	1

The distribution of the Planning Director's staff positions are as follows:

c. The height of light fixtures shall be measured from the finished grade to the top of the fixture.





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jiffy lube.
MULTI-CARE SERVICES
CRITERIA V2019.07-1X4
BELLEVILLE, MI.

REVISIONS



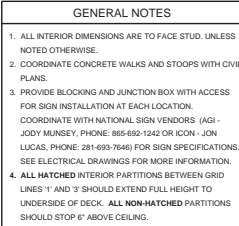
Drawn /Checked By:	XXX / XXX
Project Number	920374
Bid Date	XXXX
Permit Date	XXXXX

FLOOR PLAN -
LOWER BAY

A-1

CITY PROJECT NUMBER - LSD 19-0051

CASCO



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jiftylube.
MULTI-CARE SERVICES
CRITERIA V2019.07-1X4
BELLEVILLE, MI.

REVISIONS



Drawn /Checked By:	MDS / IAS
Project Number	920374
Bid Date	XXXX
Permit Date	XXXXXX

FLOOR PLAN -
UPPER BAY

A-2

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jiffylube
MULTI-CARE SERVICES
BELLEVILLE, MI.

REVISIONS
MODIFIED ELEVATIONS 8/13/20
MODIFIED ELEVATIONS 8/27/20
REMOVED BRAND SIGNAGE 8/15/20

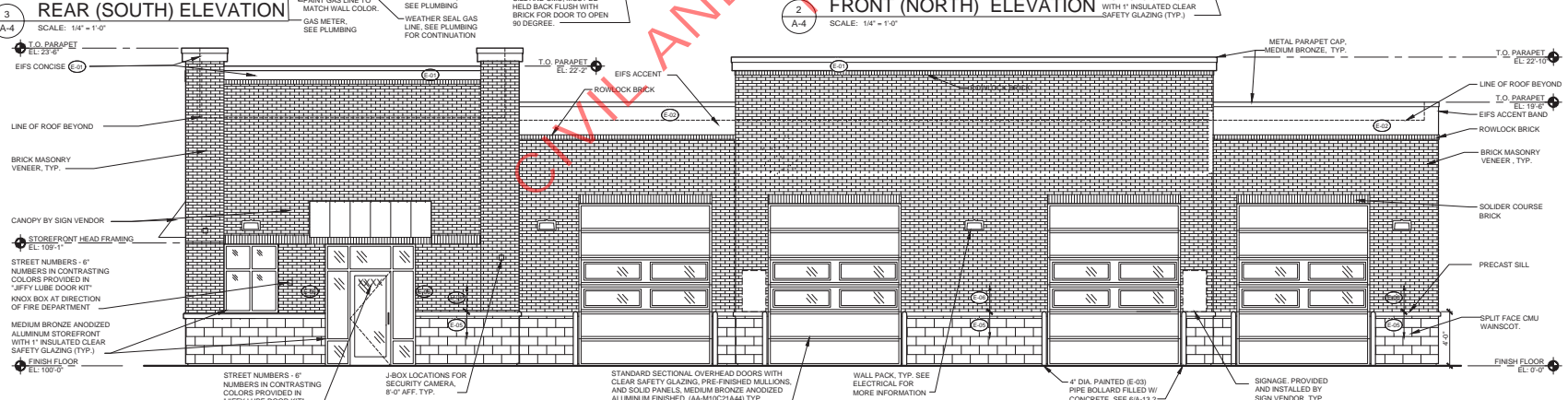
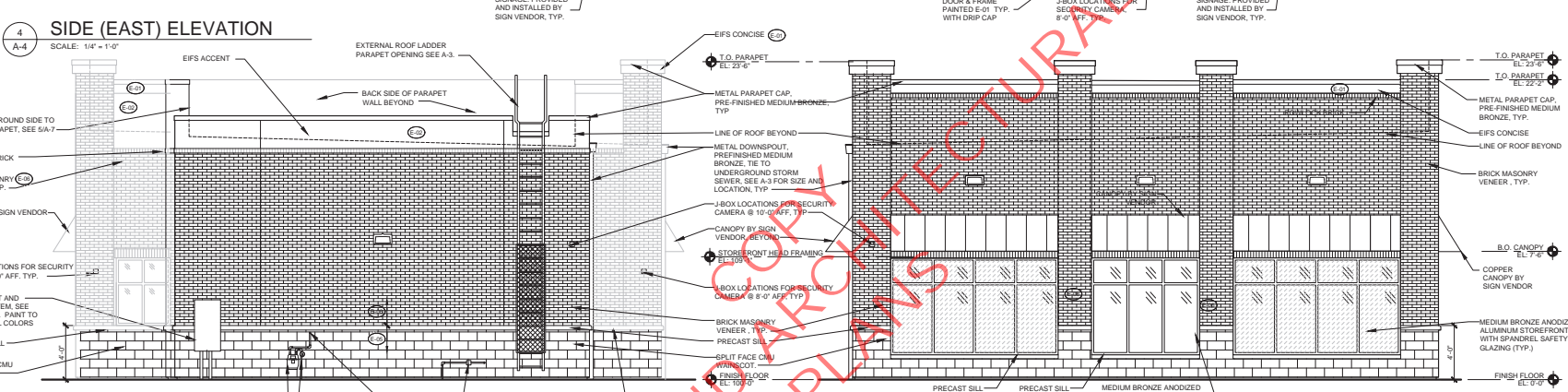
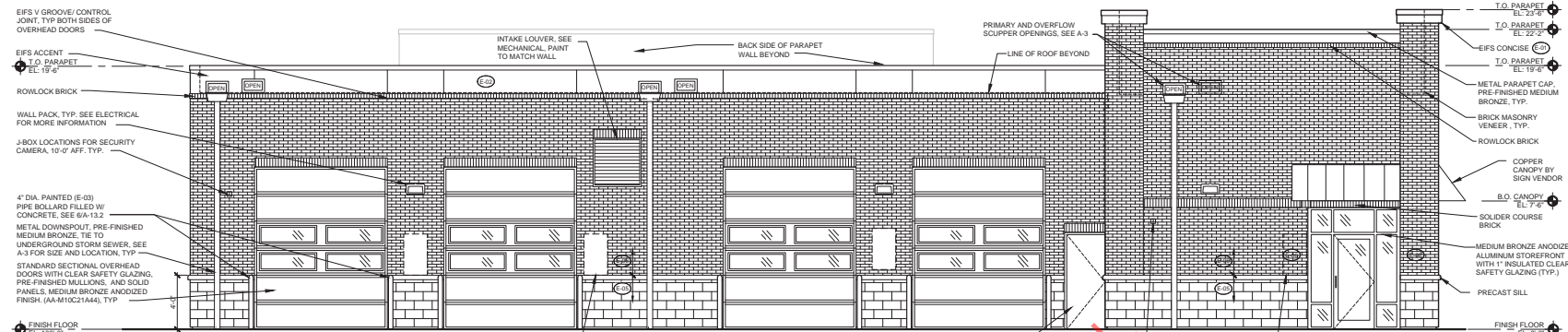
PROFESSIONAL OF RECORD
PHONE: 618-821-1001

Drawn/Checked By: XXX / XXX
Project Number 920374
Bid Date XXXX
Permit Date XXXXXX

PRELIMINARY
ELEVATIONS

A-4

CITY PROJECT NUMBER - LSD 19-0051



1 SIDE (WEST) ELEVATION
SCALE: 1/4" = 1'-0"

MARK	EXTERIOR FINISH SCHEDULE:	MATERIAL	MFR #	COLOR
E01	EXT. WALLS, SIGN POLES / FENCES / EXT. DOORS AND TRIM	PAINT (SATIN / SEMI-GLOSS)	SW2827	COLONIAL REVIVAL STONE
E02	EXT. WALLS, ABOVE WAINSCOT / EIFS (PAREX SYSTEM) WITH STUCCO FINISH	INTEGRAL TO MATCH	SW9120	TUMBLIN TUMBLEWEED
E03	EXT. WALLS, TRAFFIC BOLLARDS	PAINT (SEMI-GLOSS)	SW2806	CARMINE
E04	EXT. WALLS, APPLY OVER CARMINE COLOR ABOVE	PAINT (SEMI-GLOSS)	SW2806	CARMINE
E05	EXT. WALLS, WAINSCOT / PILASTER	SPLIT FACE CMU	TBD	CLEAR COAT
E06	EXT. WALLS, BRICK VENEER	BRICK	-	TBD

NOTE:
1. ALL COLOR NAMES INDICATED ARE FOR SELECTION PURPOSES ONLY. SEE PAINT SPECS FOR SPECIFIC REQUIREMENTS. DESCRIPTION (ALL "SHERWIN / WILLIAMS" NUMBERS "SW" COLORS).
2. APPLY CLEAR COAT (E-04) OVER CARMINE (E-03) ON EXTERIOR APPLICATIONS.
3. ALL SIGNAGE SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. ALL SIGNAGE IS UNDER SEPARATE PERMIT AND FINAL DESIGN IS BY SIGNAGE VENDOR.

NOT FOR CONSTRUCTION. THIS SET OF DRAWINGS IS THE PROPERTY OF CASCO AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE USER OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROTECTION OF THE PUBLIC. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC.

jiffylube
MULTI-CARE SERVICES
CRITERIA 2019.07.134
BELLEVILLE, MI.
3002 MILLVILLE RD.

REVISIONS

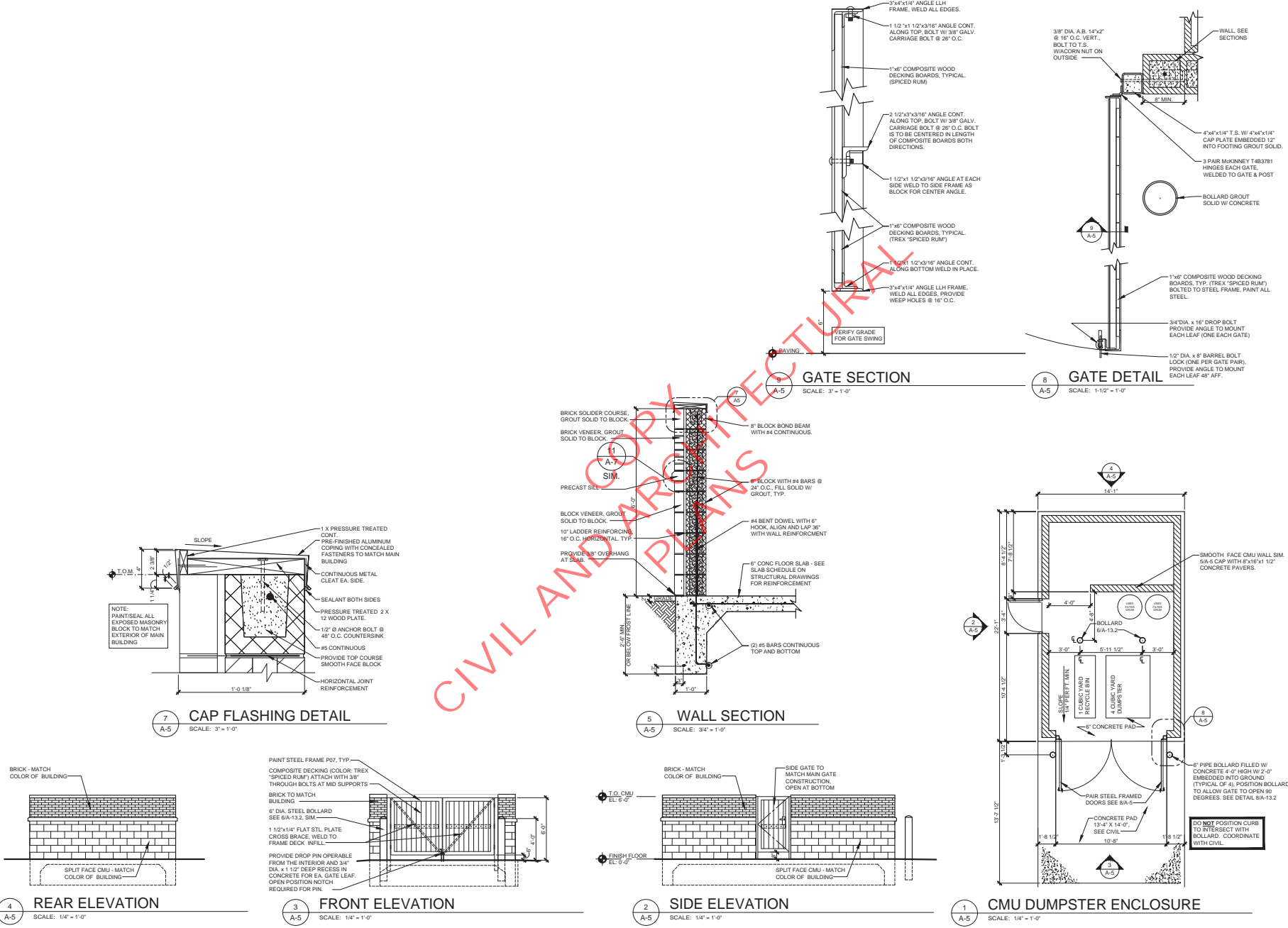
JAMES A. SCHMITT
LIC. NO. 151040489
EXP. DATE 10/01/24
PROFESSIONAL OF RECORD
PHONE: 618-821-1101

Drawn/Checked By: XXX/XXX
Project Number: 920374
Bid Date: XXXX
Permit Date: XXXXXX

DUMPSTER
ENCLOSURE

A-5

CITY PROJECT NUMBER - LSD 19-0051



Article 3: Zoning Districts and Permitted Uses

Section 3.112 C-2, Extensive Highway Business District

(A) STATEMENT OF PURPOSE	
The Extensive Highway Business District, as established in this Section, is intended to permit extensive business uses along heavily traveled highways. The permitted uses require large parcels of property and are intended to serve the general needs of all Township residents. The purpose of this zone is to provide a development pattern along designated major thoroughfares which will avoid unsafe conditions by eliminating numerous curb cut along the highway. Large required property depths and acreage are intended to encourage business uses which employ large lots.	

(B) PERMITTED USES	(C) SPECIAL LAND USES
<ul style="list-style-type: none">• All Permitted Uses in the C-1, General Business District (Section 3.111)• Indoor Recreation• Drive-In Theaters• Planned Shopping Centers• Warehousing (Excluding Outdoor Storage and Distribution Center)• Wholesale Sales• Accessory structures and uses customarily incidental to the above permitted uses	<ul style="list-style-type: none">• All Special Land Uses in the C, Local Business District (Section 3.110) and C-1, General Business District (Section 3.111)• Senior Housing

The above list is a summary of uses permitted by right or special land use approval in the district. Refer to [Section 3.104](#) (including footnotes) for standards and requirements applicable to permitted and special land uses. In case of a conflict between the above list and the uses listed in [Section 3.104](#) (including footnotes), then [Section 3.104](#) shall prevail. Refer to [Article 2](#) for definitions of uses and refer to [Article 5](#) for development standards for specific uses.

(D) ARCHITECTURAL STANDARDS APPLICABLE TO ALL COMMERCIAL ZONING DISTRICTS
All buildings in commercial zoning districts shall meet the following requirements: <ul style="list-style-type: none">• Brick or another material of similar architectural quality and appearance as determined by the Planning Commission, shall be the principal material for exterior building surfaces.• Buildings shall incorporate roof articulation, projection and relief, covered walkways into facades which include entrances or display windows or which are adjacent to parking or visible from rights-of-way.

(E) DIMENSION REGULATIONS			
Lot Standards		Minimum Setbacks	
Min. Lot Area (sq. ft.)	--	Front Yard	35 (N)
Min. Lot Width (ft.)	--	Side Yard (one)	25 (P)
Min. Lot Depth (ft.)	--	Side Yard (total of 2)	50
Max. Lot Coverage (%)	--	Rear Yard	20*
Min. Floor Area/Unit (ft.)	--		
Max. Building Height (ft.)	40		
Max. Building Height (stories)	4		

Footnotes: Refer to [Section 4.102](#) wherever a footnote is referenced in parentheses after one of the design regulations.

Chapter 3 Belleville Road Overlay District (BROD)

Section 6.301 Intent and Purpose

The Belleville Road Overlay Zoning District (BROD) establishes regulations applicable to site development including building setbacks, design, parking, access management, landscaping, and signage. This overlay district is based upon careful evaluation, study, and plans completed as part of a master planning effort by the Van Buren Township Planning Commission and Downtown Development Authority (DDA). Objectives of the overlay district are as follows:

- (A) Promote development consistent with the Belleville Road District Plan.
- (B) Establish consistent high quality standards for site development and building appearance.
- (C) Achieve well-managed, safe, and efficient flow of motorized and non-motorized traffic, including accessibility and connectivity.
- (D) Foster a more pedestrian-friendly environment that contributes to the Township's sustainability as a vital, attractive, economic, and healthy place to live.
- (E) Permit the combination of uses which are complementary to one another within the same structure or zone.
- (F) Enhance the built environmental of the area and provide a sense of place, including the creation of high quality public spaces.

The application of these standards contributes to the Township's economic development objectives and are intended to help sustain and increase the value of private property.

Section 6.302 Definitions

The following definitions shall apply specifically to the BROD, but may be applied broadly throughout the Township where, in the opinion of the Planning Director, the definition has broad applicability:

- (A) **BUILDING ENVELOPE STANDARDS (BES):** Basic parameters regulating building location and form, including the envelope, placement (in three dimensions) and certain permitted/required building elements, such as storefronts, balconies, and street walls. The BES establish both the boundaries within which things may be done, and specific things that must be done. The applicable BES for a site are determined by its subarea in the Overlay District.
- (B) **DISTRICT PLAN:** Refers to the Belleville Road District Plan and Market Analysis as adopted by the Van Buren Township Planning Commission.
- (C) **FAÇADE FRONTAGE:** Refers to the façade of a building where the primary public pedestrian entrance must be located. The area in front of the building frontage is considered the "front yard" for the purposes of this Chapter.



MCKENNA

October 27, 2020

Planning Commission
Charter Township of Van Buren
46425 Tyler Road
Belleville, Michigan 48111

**Subject: VBT-20-012 Jiffy Lube / 9701 Belleville; Special Land Use Review #1; Revised Site Plans
Dated September 28, 2020.**

Dear Commissioners:

The applicant, Jiffy Lube International, Inc., proposes to construct a 3,064 square foot building to offer light automotive service repairs, including oil changes, replacement/ replenishment of lubricants, replacement of light bulbs, tire services and battery testing. The site is one of the outlots of Meijer, located on the south side of Tyler Road, between Belleville Road and Morton Taylor Road. The site is zoned C-2 (Extensive Highway Business District). Section 3.112 of the Zoning Ordinance permits Vehicle Service (minor) as special land use in the C-2 District.

We have reviewed the special land use request based on Zoning Ordinance standards and sound planning and design principles. Our comments are as follows (items requiring changes or additional information are underlined):

Special Land Use Review Comments

Section 12.306 of the Zoning Ordinance sets forth criteria for the Planning Commission to consider when reviewing special land use proposals. Following is our review of each criterion:

- 1. Will promote the use of land in a socially and economically desirable manner for those persons who will use the proposed land use or activity; for those landowners and residents who are adjacent; and for the Township as a whole.**

The site is currently vacant and located at the entrance to the main commercial area within the Township. The outlet is located next to a gas station and other commercial enterprises, which include an auto dealership further south on Belleville Road. The proposed development will serve as an automotive service center for the residents of the community and will promote the use of land in a socially and economically desirable manner as planned for the area. Any impacts resulting from the proposed development will be mitigated through setbacks, landscaping and screening, which are reviewed in our site plan review letter under separate cover.

- 2. Is necessary for the public convenience at that location.**

The proposed use is located right off Tyler Road in close proximity to Belleville Road, making access to it convenient for the public. The site is also part of the Belleville Road Overlay District (BROD) which is the main commercial hub for the Township.

HEADQUARTERS
235 East Main Street
Suite 105
Northville, Michigan 48167

O 248.596.0920
F 248.596.0930
MCKA.COM

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3. Is compatible with adjacent uses of land.

There are a multitude of automotive related businesses located on Belleville Road in close proximity to the proposed subject site. Businesses such as O'Reilly's, Water Works Auto Wash, Meijer Gas Station Express, and Quick Lane Tire & Auto Center are located along this corridor which are in the same class of automotive businesses as the proposed use. Therefore, the use is compatible with adjacent uses of land.

4. Is so designed, located and proposed to be operated that the public health, safety and welfare will be protected.

The proposed site changes involve improvements to site landscaping and pedestrian access, which are likely to enhance public health, safety, and welfare. Comments addressing the site layout, circulation and access are discussed in our site plan review letter under separate cover.

5. Can be adequately served by public services and facilities without diminishing or adversely effecting public services and facilities to existing land uses in the area.

We do not anticipate that the proposed site plan will affect the site's current public service capacity. The applicant is working with the Township Engineer to meet all utility requirements.

6. Will not cause injury to other property in the neighborhood in which it is to be located.

The proposed site improvements will not cause injury to other properties in the neighborhood in which it is located. As noted previously, the site is located in a corridor with similar higher intensity commercial uses.

7. Will consider the natural environment and help conserve natural resources and energy.

No trees are proposed to be removed as part of the site plan. Further, the addition of trees and shrubs for landscaping on site help meet this standard.

8. Is within the provisions of uses requiring special approval as set forth in the various zoning districts herein, is in harmony with the purposes and conforms to the applicable regulations of the zoning district in which it is to be located and meets applicable site design standard for special approval uses.

Jiffy Lube is within the provisions of uses requiring special approval, and is in harmony with the purposes and conforms to the applicable regulations of the C-2 zoning district and meets applicable site design standard for special approval uses.

9. Is related to the valid exercise of the Township's police power and purposes which are affected by the proposed use or activity.

The proposed vehicle service use is related to the valid exercise of the Township's police power and purposes which are affected by the proposed use or activity.

Specific Approval Criteria for Vehicle Service (minor) [Section 5.141]: Vehicle service (minor) is permitted as a Special Land Use in the C-2 District, and is subject to the following use specific standards:

- 1. Service stations and commercial garages, where permitted, shall be located at least five hundred (500) feet from any entrance or exit to a lot on which public, parochial or private school or a playground, playfield or park is located.** This standard has been met. The nearest public, parochial or



private school or a playground, playfield or park is Heraty Memorial Park, approximately 1,200 feet southwest of the subject site.

2. **The minimum frontage on any one (1) public street shall be at least one hundred fifty (150) feet.**
The site plan and proposed lot split to create the outlot have been updated to ensure compliance with this standard.

Recommendation

The proposed use meets the general standards for consideration of special land use approval and the specific conditions related to use. Therefore, we recommend the Planning Commission recommend approval of the special land use to the Township Board of Trustees, subject to site plan approved.

Respectfully,

McKENNA

Vidya Krishnan
Principal Planner

Hunter Whitehill
Associate Planner

- c: Matt Best, Van Buren Township Director of Public Services
Dan Power, Van Buren Township Director of Planning and Economic Development
David Potter, FTCH, Township Engineers
David McInally, Van Buren Township Fire Marshal



October 30, 2020

Planning Commission
Charter Township of Van Buren
46425 Tyler Road
Belleville, Michigan 48111

Subject: VBT-20-012 Jiffy Lube / 9701 Belleville; Site Plan Review #2; Revised Site Plan Dated September 28, 2020.

Dear Commissioners:

The applicant, Jiffy Lube International, Inc., proposes to construct a 3,064 square foot building to offer light automotive service repairs, including oil changes, replacement/ replenishment of lubricants, replacement of light bulbs, tire services and battery testing. The site is one of the outlots of Meijer, located on the south side of Tyler Road, between Belleville Road and Morton Taylor Road. We have reviewed the site plan request based on Zoning Ordinance standards and sound planning and design principles. Our comments are as follows (items requiring changes or additional information are underlined):

Site Plan Review Comments

1. **Zoning and Use.** The site is zoned C-2 (Extensive Highway Business District). Section 3.112 of the Zoning Ordinance permits vehicle service (minor) as a special land use in the District.
2. **Required Information.** Section 12.203 of the Zoning Ordinance includes requirements for information on a site plan. All of the required information has been provided. The applicant is requesting a parcel division / boundary adjustment as part of the creation of this parcel. The parcel division / boundary adjustment preliminary approval must be complete prior to final site plan review and the parcel division / boundary adjustment final approval must be complete prior to commencement of construction.
3. **Lot.** The site has a total area of 0.72 acres. The legal description is included with the tax parcel ID number.
4. **Dimensional Requirements.** There is no required minimum lot area or width in the C-2 Extensive Highway Business District.

The minimum required front, rear, and side yard setbacks for the C-2 District is 35 feet, 20 feet, and 25 feet respectively. The proposed building location complies with all the setback dimensions.

Maximum permitted building height in the C-2 District is 4 stories and 40 feet. The elevations proposed indicate a building height of 22 feet and 2 inches, compliant with the Zoning Ordinance.



5. Access and Circulation.

- a. **Location of Curb Cuts.** Access to the proposed facility will be provided via the existing driveway off Tyler Rd, with a cross access drive proposed to connect to the existing driveway, which provides access to the Meijer Express Gas Station. The access drive has a proposed width of 24 feet with a lane each for ingress and egress.
- b. **Cross Access.** The outlot has cross access with the main Meijer parcel. The proposed site relies on cross access, egress, and ingress from the adjacent Meijer driveways on Tyler Road to the east and west. An easement agreement which includes graphic exhibits for cross access / ingress / egress between these driveways and the subject site must be provided for review.
- c. **Sidewalks.** The site has an existing sidewalk along its Tyler Road frontage. The plan proposes the construction of a sidewalk connection from the public sidewalk to a new sidewalk on the west side of the proposed building. The connector creates a plaza area along Tyler Road and subsequently narrows to 5 feet. The plaza area is to be installed with two benches and a trash receptacle.

6. Parking and Loading.

- a. **Space Dimensions.** Parking spaces on the site are dimensioned at 9.5 feet wide by 20 feet long, compliant with the Zoning Ordinance.
- b. **Number of Parking Spaces.** The parking requirement is two (2) spaces for every service stalls one (1) for each employee in the largest shift. With 4 proposed service stalls and 5 employees in the largest shift, a minimum of 13 parking spaces are required. The site plan includes a total of 9 parking spaces on-site and 4 off-site parking spaces within the Meijer lot. The applicant has stated they have been granted easements from the respective owner to fulfill the total parking count requirement. Copy of an irrevocable shared parking agreement must be provided for review.

Partial rows of the parking on the Meijer's lot (20) spaces total are to be eliminated as part of these improvements. The applicant has provided parking count justification for these modifications on sheet C1.02. These parking count justifications ensure that Meijer has adequate parking even without the 20 spaces the applicant is proposing to convert to a greenbelt.

- c. **Barrier Free Spaces.** The plan proposes one (1) barrier free space which is ADA compliant. The ramp location has been noted.
- d. **Loading.** As the proposed building is between 0 – 10,001 sq. ft., one (1) 10' x 25' loading space is required. A 10' x 25' loading zone has been detailed on the southwest corner of the site abutting the dumpster. While not ideal, it is most feasible location for the loading zone.
- e. **Bicycle Parking.** Chapter 3 of Article 6 provides standards for buildings within the Belleville Road Overlay District (BROD). Per this chapter, one (1) bicycle parking space shall be provided for each twenty-five (25) vehicle parking spaces or fraction thereof.



With 9 proposed parking spaces, one (1) bicycle parking space is required and has been proposed on the north side of the building abutting the sidewalk connector from Tyler Road.

- 7. Landscaping and Screening.** The site is located in the Extensive Highway Business (C-2) district. All sites are strongly encouraged to exceed Zoning Ordinance minimums for landscaping, site design, and building appearance among others. Our comments on individual landscaping requirements are reflected in the following comments:

a. Landscaping Adjacent to the Right-of-Way. Section 10.103(A) requires lot frontage landscaping of 1 deciduous tree/40 lineal feet + 1 ornamental tree/100 lineal feet + 8 shrubs/40 lineal feet. The site has a frontage of 142' on Tyler Road, which requires a total of 4 deciduous trees + 2 ornamental trees + 28 shrubs. The landscape plan proposes 4 deciduous trees + 2 ornamental trees + 31 shrubs along the road frontage on Tyler, compliant with ordinance requirements. Section 6.310 (C) (2) (b) states; In addition to the trees required in the frontage area in Section 10.103(A), deciduous street trees shall be planted within the right-of-way of any streets (i.e., between the sidewalk and the street), in an amount equal to at least one (1) deciduous street tree per each forty (40) linear feet or fraction thereof of frontage. This requires 4 trees between the Tyler Road right-of-way and the existing sidewalk, which has been provided.

b. Parking Lot Landscaping. Section 10.103(B)(1) requires all parking lots to be landscaped and screened from adjoining public or private rights-of-way. Landscaping shall include a landscaped yard at least five (5) feet in width containing an opaque screen of landscaping (evergreen or deciduous hedge) at least three (3) feet in height. As the majority of the parking lot is behind the proposed building, we find that it is adequately screened from Tyler Road. The handicap accessible space on the northeast corner of the building has been screened from Tyler Road by a screen hedge.

Interior parking lot landscaping. Section 10.103(B)(2) requires the provision of landscaping within islands in a parking lot. Interior landscaping shall account for a minimum of five percent (5%) of all paved parking areas, including parking and loading spaces, driveways, and aisles. The applicant has detailed the total on-site paved area is 11,831 sq. ft. which requires an interior landscape area of 592 sq. ft. The applicant has provided 650 sq. ft. of interior landscaping, compliant with the Zoning Ordinance. Additionally, one (1) deciduous tree shall be planted for each three hundred (300) square feet of interior landscaping, the applicant has provided 2 deciduous trees to satisfy this requirement.

c. Loading Area Landscaping. Section 10.103 (C) of the Zoning Ordinance requires an opaque wall or a greenbelt for required screening. The loading space has been identified and screened with 6-foot evergreen plantings and 24'-30" ornamental grasses.

d. Display Area Buffering. This requirement is not applicable.

e. Greenbelt Buffering. Section 10.103 (E) provides greenbelt buffering standards. A ten (10) foot wide buffer, with one (1) tree per thirty (30) linear feet is required on all sides of the proposed development. A 10-foot-wide buffer has been provided on all sides. With 150 linear feet on the front and rear lot line, 5 greenbelt trees are required; 5 trees have



been proposed in the front and 5 trees in the back, compliant with the zoning ordinance. Additionally, 7 trees are required along the west side lot line and east lot line and have been provided, compliant with the zoning ordinance.

- f. Detention Pond Landscaping.** The site plan includes a proposal to incorporate a bioretention area into the development. The proposed drainage system is subject to review and approval by the Township Engineer and Wayne County. Any planting around the drainage areas are under Wayne County's jurisdiction. The planting plan for this area must be provided and approved by the County.
- g. Specific Landscaping for C-2 Zoning District.** Developments in the C-2 District require contiguous outdoor space, independent of sidewalks, pedestrian circulation areas and required landscaping, in an amount not less than one (1) square foot for each twenty-five (25) square feet of principal building and in no case less than two hundred fifty (250) square feet in total. Based on the building size the required open space is under the 250 sq. ft. threshold so 250 sq. ft. of open space is the minimum required for the site. 250 sq. ft. of outdoor gathering space has been provided in the northwest corner of the site and includes two benches and a trash receptacle.
- h. BROD Landscape Standards.** Section 6.310 provides landscape standards for development projects within the BROD. Some of these standards are discussed in their respective landscape standards above. The following additional points have been addressed and are in compliance on the revised plan:
- 45 linear feet of perennial beds has been provided along the Tyler Road frontage in compliance with Section 10.103(A).
 - An eight (8) foot street lawn, five (5) foot wide sidewalk, and five (5) foot buffer area has been provided between the off-street parking and/or vehicular use area and the sidewalk. The street lawn includes trees in accordance with Section 6.310(C)(2). A five (5) foot buffer area extends the length of the parking lot, and includes an opaque screen of landscaping 24" in height. The hedge shall attain opacity and a height of three (3) feet within twelve (12) months of planting under normal growing conditions. The applicant must clarify that the proposed shrubs located around the parking lot will be 3 feet in height within 12 months of planting.
- 8. Tree Removal Permit.** A tree removal permit is required if the applicant proposes to remove any trees of 5" caliper or larger. The applicant has clarified no trees are to be removed so a tree permit is not applicable.
- 9. Stormwater Pond.** As previously stated, the proposed development is to contain a bioretention area. Storm water detention calculations are subject to review and approval by the Township Engineer and Wayne County.
- 10. Lighting.** The photometric plan indicates several wall mounted fixtures on the building façade and a single pole fixture on the south side of the site. Standards from Section 8.105 and 6.309 (D) apply. Manufacturer's cut sheet details for proposed wall and pole mounted fixtures with shielding has been provided and indicates a downward directed shielded fixture. The



illumination intensity must comply with the requirements of Section 8.105 (B) (2). The applicant has noted that there is only one proposed site light the remaining are client standard wall pack lights required to ensure acceptable levels of lighting for customers and employees. The photometric plan does not show any illumination levels at the plaza area along Tyler Road and the sidewalk connection. Illumination for this area even if it is through existing fixtures needs to be shown.

- 11. Architecture and Building Details.** The applicant has submitted detailed elevations for the proposed building. The structure is to be constructed of 'thin brick' masonry veneer and provided with an EIFS cornice and metal cap. The east and west facades have several overhead doors, while the north façade facing Tyler Road has 3 windows.

The site is part of the Belleville Road Overlay District, the Township's primary business district. The Planning Commission has consistently required a high standard of design for developments in this area. Chapter 3 of Article 6 provides standards for buildings within the Belleville Road Overlay District (BROD). The following items have mostly been addressed:

- a. Details of the proposed benches have been included on sheet C1-20.
- b. Location and square footage of decorative paving have been included on C1.20.
- c. Copper canopy elements are proposed on the east, west and north elevations to comply with the Ordinance requirement for addition of awnings and overhangs to building facades.
- d. Nonresidential buildings are required to have a minimum of fifty (50%) glass at the ground floor level facing a street. It is unclear how the applicant calculated compliance with this standard for the façade facing Tyler Road. To meet the standard we recommend the raising of the canopy and the storefront glass an additional 2 feet along the site's Tyler Road frontage.
- e. The intent of the BROD is to avoid developments with architectural elements that look applied, rather than incorporated. For example, building facades that incorporate canopies must provide a pitched roof component to provide depth and give an authentic appearance. While the applicant has significantly revised the elevations since the original submittal, the architecture of the building continues to appear like a standard corporate design. The location of the building at the entrance to the principal shopping district within the Township needs to be enhanced. The addition of brick horizontal bands in an alternate color, or the incorporation of brick set in a different pattern in blank wall areas to create a medallion effect would be some of the suggested changes. The use of thin veneer face brick is not acceptable. True brick, stone and other similar high-quality materials must be incorporated on a façade that has details in the form of banding, columns etc.

- 12. Dumpster.** A dumpster pad location has been labeled on the site plan in the southwest corner of the site. The applicant has submitted dumpster enclosure details compliant with the Zoning Ordinance. The proposed dumpster enclosure will shield the dumpster from view.



- 13. Signs.** The applicant is proposing one monument sign, one wall sign, and six incidental exit/entry signs. The entry/exit safety signs are considered as exempt signage. For lots with a frontage less than 200 feet, maximum permitted monument sign area is 30 square feet. The proposed sign complies with the height requirements and size requirements and has been provided with a masonry base as required.
- The ordinance permits a maximum of 3 sq. ft of signage per lineal foot of building frontage not to exceed 300 square feet or 50% of the wall faced excluding windows and doorways. The plan proposes a 58 sq. ft wall sign on the north façade compliant with the Zoning Ordinance.

- 14. Other.** The plan proposes screening around the transformer shown on the northeast corner of the site.

RECOMMENDATION

Many of the required site plan items have been addressed; however, there still remain several issues that need to be addressed or notes of clarification added. Any items that are either missing or require additional information can be included at final site plan review. Therefore, we recommend that the Planning Commission approve the preliminary site plan, subject to the following conditions:

1. Lot split and combination must be completed prior to start of construction.
2. Copy of an irrevocable shared parking and cross access easement agreement with Meijer must be provided.
3. The proposed stormwater detention system must be reviewed and approved by the Township Engineer and Wayne County. Any planting around the drainage areas are under Wayne County's jurisdiction. The planting plan for this area must be provided and approved by the County.
4. The applicant must clarify that the proposed shrubs located around the parking lot will be 3 feet in height within 12 months of planting.
5. The proposed photometric plan must include the plaza area illumination for safety.
6. The proposed building architecture must be revised to include true brick and additional brick accent bands or alternate designs to comply with the BROD standards as discussed in Comment 11 above.
7. Special land use approval by Township Board of Trustees.

Respectfully,
McKENNA

Vidya Krishnan
Principal Planner

Hunter Whitehill
Associate Planner

c: Matt Best, Van Buren Township Director of Public Services
Dan Power, Director of Planning and Economic Development
David Potter, FTCH, Township Engineers
David McNally, Van Buren Township Fire Marshal

October 27, 2020
Fishbeck Project No. 200630

Carol Thompson
Planning Commission Chairperson
Van Buren Township
46425 Tyler Road
Van Buren Township, MI 48311

Jiffy Lube Multicare Services Preliminary Site Plan Review

Dear Chairperson Thompson:

At the request of Van Buren Township (Township), Fishbeck has reviewed the Preliminary Site Plan dated September 21, 2020 submitted to the Township for the proposed Jiffy Lube located near the southeast corner of Tyler Road and Belleville Road next to the Meijer parking lot. At this time, Fishbeck examines and reviews the feasibility of the engineering aspects of the site design but will not conduct a full engineering review until the engineering review submittal. The applicant has also submitted a response letter dated September 21, 2020, in response to the Staff Review Letter dated June 26, 2020.

The proposed project entails construction of a retail automotive quick oil change facility at Parcel No. 83058990006707. The plans include construction of a new 3,064 square-foot building, construction of an 8-space asphalt parking lot with reconstruction of a north portion of the existing Meijer parking lot; two access driveways connecting to the Meijer parking lot; construction of storm water improvements including a bioretention french drain, pretreatment structure, and an underground storage system; construction of a public sanitary sewer system; extension of a public water main line; and other various site plan improvements.

Our review comments are as follows:

General

The following items are general requirements established as part of the Engineering Standards Manual, Charter Township of Van Buren (April 2014). The applicant must include the following items as part of the construction plans:

1. According to the applicant, the lot split has been completed as is currently indicated on the plans.
2. Plans indicate the address of 9701 Belleville Road is for the Meijer Store located on the parent parcel. Applicant to supply the development parcel address when available.
3. Any irrigation will be required with the submittal of the Engineering Plans.
4. Applicant must indicate overland stormwater flow route. Showing the pre and post development drainage patterns.
5. The geotechnical investigation report has been submitted as part of the response letter; however, the plan set should include the location of the soil borings on the site plan.
6. Engineering Plans must include the applicable Standard Detail Drawings as found in Appendix A of the Township *Engineering Standards Manual*. Please include the Standard Details as developed by the Township, including note sheets. The easiest inclusion is to use the full-size sheets of multiple details, which the Township can supply upon request.

Water Main Service

Existing: The Township's Geographic Information System (GIS) records indicate a publicly owned 12-inch cast iron water main running east-west along the north side of Tyler Road and two (2) 42-inch water mains running east-west along Tyler Road, which are owned and maintained by the Great Lakes Water Authority (GLWA). Records also indicate an 8-inch water main loop around the Meijer store building.

Proposed: The applicant's plan proposes installing an 8-inch water main connecting into the existing 8-inch water main inside the Meijer parking lot and connecting to the proposed building via a 2-inch copper type K water service line.

Comments:

1. Applicant has indicated that, based on building construction type and square footage, building sprinklers are not required.
2. An easement agreement between Applicant and property owner (Meijer), for the extension of the proposed water main across private property, must be provided. Meijer will be required to grant said easement to the Township for the public water main. The easement must be centered on the water main, including bends.
3. An Michigan Department of Environment, Great Lakes, and Energy (EGLE) Act 399 Public Water Supply Permit will be required. The Applicant is responsible for completing the permit application, supplying the proper plan sets, and working with the Township to finalize the submittal. The Township will submit for the permit once all obligations of the application are met and the plans are finalized.

Sanitary Sewer

Existing: The Township's GIS records indicate that the closest sanitary sewer is a public 10-inch clay sanitary sewer running north-south along the east side of Belleville Road.

Proposed: The applicant's plan proposes a privately owned 6-inch sanitary sewer service, connecting into a newly proposed 8-inch public sanitary sewer running west through the adjacent Meijer gas station parking lot and connecting to the existing 10-inch sanitary sewer along Belleville Road via a wye connection.

Comments:

1. Applicant must provide Basis of Design (BOD) calculations as part of the Engineering submittal. Once a basis of design is determined, and the proposed size is verified, further discussion regarding capacity and connection to the existing public 10-inch clay sanitary sewer along Belleville Road will be conducted.
2. Minimum size for public sanitary sewer shall be ten inches in diameter. If connecting to the existing sanitary system, this must be done at a manhole; existing or proposed.
3. All utilities along Belleville Road must be identified. Previous projects indicate a variety of utilities that will need to be identified and accounted for during connection to the existing sanitary main.
4. A soil boring near the location of the existing sanitary main connection is recommended, due to the need for deep excavations at the connection location.
5. An easement agreement between Applicant and property owner (Meijer), for the extension of the proposed sanitary sewer across private property, must be provided. Meijer will be required to grant said easement to the Township for the public sanitary sewer.
6. The minimum sanitary sewer easement shall be 20 feet.
7. A minimum horizontal separation of ten feet (measured outside of pipe to outside of pipe) must be maintained between the sewer and all other utilities.
8. An EGLE Part 41 Permit will be required for any public sanitary sewer installation. The Applicant is responsible for working with the Township to complete the permit and supplying the proper plan sets. The Township will submit for the permit once all obligations of the application are met and the plans are finalized.

Storm Sewer

Existing: The Township's GIS records indicates a publicly owned 18-inch stormwater pipe running east-west along the south side of Tyler Road, conveying stormwater east. Separately, the majority of the Meijer parking lot development collects stormwater through a series of catch basins, ultimately discharging into an onsite detention basin.

Proposed: The applicant proposes collecting the on-site stormwater runoff through a series of new catch basins and storm sewers, which work in conjunction with a French drain, a pretreatment system, and an underground storage area. The underground storage is proposed to outlet into the existing Wayne County owned stormwater manhole on the south side of Tyler Road.

Comments:

1. The Applicant has provided calculations for the design of the storm sewer system, which has not thoroughly been reviewed, but does appear to follow Township design standards.
2. Applicant must submit for stormwater approval from Wayne County prior to the Township accepting submission for Engineering and Final Site Plan approval. The Township will request to see that Wayne County has reviewed and commented on the stormwater system prior to reviewing the system itself.
3. Applicant shall design storm sewer system to have minimum cover of 4 feet above all storm sewers wherever possible. An absolute minimum cover of 2.5 feet is allowable, upon approval from the Engineer. The applicant has indicated that the roof drain material (ADS N-12) is rated for one (1) foot of cover.
4. Applicant must include details of the French drain with the Engineering Plan submittal and verify that the proposed trees are indicated on the landscape plans will not interfere with the function of the French drain.

Paving and Grading

1. Details for sawcutting and constructing curb and gutter in existing pavement must include tie-in details.
2. Applicant must indicate where each of the two curb and gutter details is used on the plans.

Soil Erosion and Sedimentation Control

1. The SESC plan provided must be in accordance with the Township *Engineering Standards Manual*, Chapter II, Plan Requirements, Paragraph D, SESC Plan Requirements, and in accordance with Wayne County SESC standards. A permit must be acquired from the Wayne County SESC County Enforcing Agency.
<https://www.waynecounty.com/departments/environmental/landresources/soil-erosion.aspx>


Recommendation

We are recommending the Planning Commission grant the Jiffy Lube Multiservice Center Preliminary Site Plan approval for engineering feasibility, subject to the comments listed above and in accordance with the Township's Engineering Standards manual. If you have any questions regarding this project, please contact me at 248.324.2137 or pkammer@fishbeck.com.

Sincerely,



Paul J. Kammer, PE
Senior Civil Engineer



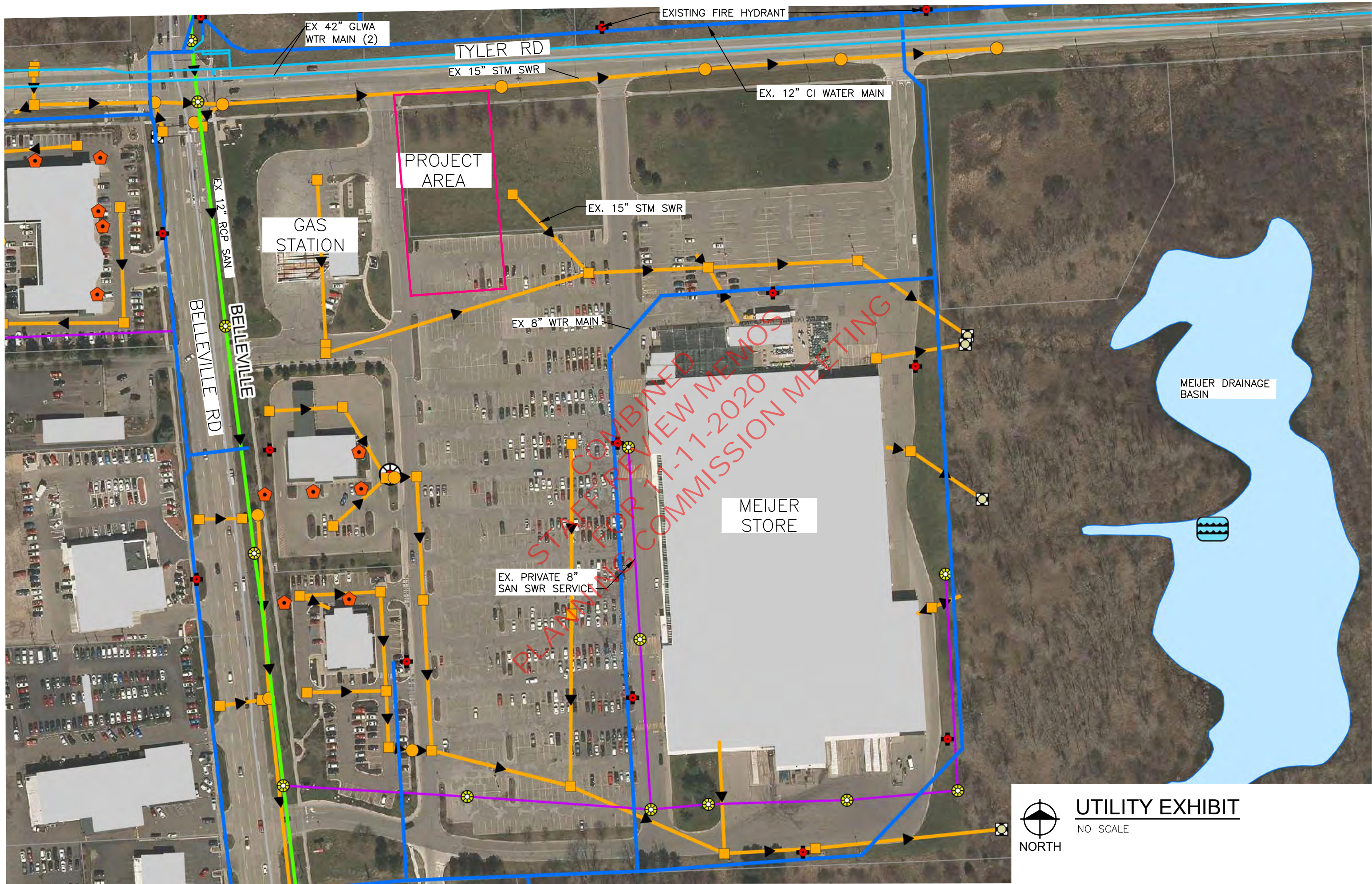
Stephen C. Clayton, PE
Civil Engineer

By email

Attachment

Copy: Matthew Best – Township
Dan Power – Township
Vidya Krishnan– McKenna
Dave Potter – Fishbeck

COMBINED
STAFF REVIEW MEMOS
FOR 11-11-2020
PLANNING COMMISSION MEETING



Andrew Lenaghan
Fire Inspector
O: 734-699-8900 ext 9426

Van Buren Township Fire Department
46425 Tyler Rd
Belleville, MI 48111

Oct 28, 2020

Director of Building and Planning
46425 Tyler Road
Belleville, MI 48111

Jiffy Lube
9701 Belleville Rd.

The site plan for 9701 Belleville rd. was reviewed. The business is a minor repair garage (Jiffy Lube) that is to be built on vacant land. The building is a Mercantile occupancy.

Comments for conditional Approval:

1. Two-Way Radio Communication Enhancement Systems are required for all new construction, unless after finished construction the occupant can prove through a signal test with the AHJ that it is not needed. **NFPA 1 2018 11.10.1**
2. An E Knoxbox is required per **NFPA 1 2018 edition 18.2.2.1** per the AHJ

If you have any questions about this plan review report, please feel free to contact me at (734)699-8900 ext.9426

Respectfully submitted,

Andrew Lenaghan
Fire Inspector

Our Mission: The members of the Van Buren Fire Department shall work together in a professional and caring way to protect life and property from the adverse effects of fire, trauma, illness and dangerous conditions. Our services will be provided in a fair, honest, and ethical manner with the highest respect and dignity to all.

**CHARTER TOWNSHIP OF VAN BUREN
PLANNING COMMISSION - VIRTUAL MEETING ON ZOOM
November 11, 2020
MINUTES - DRAFT**

Prior to the start of the meeting, the public was given instructions on how to take part in the meeting.

Chairperson Thompson called the meeting to order at 7:31 p.m.

ROLL CALL:

Present: Boynton, Kelley, Atchinson, Budd, Jahr, Franzoi and Thompson.

Excused: None.

Staff: Director Power, Director Best and Secretary Harman.

Planning Representatives: McKenna Associate, Vidya Krishnan and Fishbeck Associate, Paul Kammer.

Applicant(s) in Attendance: Tim Kratz and Matthew Pisko, representatives of Jiffy Lube International, Inc.

Audience: Five (5).

APPROVAL OF AGENDA:

Motion Boynton, Jahr second to approve the agenda of November 11, 2020 as presented.

Roll Call:

Yeas: Franzoi, Jahr, Boynton, Kelley Atchinson, Budd and Thompson.

Nays: None.

Absent: None.

Motion Carried.

APPROVAL OF MINUTES:

Motion Boynton, Budd second to approve the regular meeting minutes of October 28, 2020 as amended correcting the names of Commissioners in the approval of the meeting minutes motion.

Roll Call:

Yeas: Jahr, Boynton, Kelley, Atchinson, Budd, Franzoi and Thompson.

Nays: None.

Absent: None.

Motion Carried.

PUBLIC HEARING:

ITEM #1: 20-012 – PUBLIC HEARING: JIFFY LUBE MINOR VEHICLE SERVICE SPECIAL LAND USE.

APPLICANT, JIFFY LUBE INTERNATIONAL, INC. IS REQUESTING ON BEHALF OF OWNER MEIJER, INC. TO CONSTRUCT A MINOR VEHICLE SERVICE USE ALONG WITH RELATED SITE IMPROVEMENTS. THE PROPOSED +/- 3,064 SQUARE FOOT, SINGLE-STORY BUILDING IS LOCATED ON THE SOUTH SIDE OF TYLER ROAD EAST OF BELLEVILLE ROAD ON A PROPOSED +/- 0.71 ACRE OUTPARCEL TO BE DIVIDED AND CREATED FROM PORTIONS OF THE 39.4 ACRE PARCEL AT 9701 BELLEVILLE ROAD (83-058-99-0006-705) AND A VACANT 1.33 ACRE PARCEL (83-058-99-0006-707). THE PROPERTY IS ZONED C-2 EXTENSIVE HIGHWAY BUSINESS DISTRICT AND IS LOCATED IN THE BELLEVILLE ROAD OVERLAY DISTRICT (BROD).

MINOR VEHICLE SERVICE DEVELOPMENTS ARE A SPECIAL LAND USE IN THE C-2 DISTRICT. THE PROPOSED SPECIAL LAND USE REQUIRES A PUBLIC HEARING. THIS HEARING IS BEING HELD IN ACCORDANCE WITH ARTICLE 12, CHAPTER 3 OF THE ZONING ORDINANCE (ADMINISTRATIVE PROCEDURES – SPECIAL LAND USE REVIEW).

Motion Atchinson, Boynton second to open the public hearing.

Roll Call:

Yeas: Kelley, Atchinson, Budd, Boynton, Jahr, Franzoi and Thompson.

Nays: None.

Absent: None.

Motion Carried.

Director Power gave a brief introduction. The request is for a minor vehicle service land use in a just over 3,064 square foot building on a 0.71-acre out lot of Meijer on Belleville and Tyler Roads. The special land use request in the C-2 District requires a series of general standards and specific conditions and the property is located in the core commercial sub area of the Belleville Road Overlay District (BROD) which is automotive oriented but also requires development to have architectural and design treatments that bring sites to human scale. The applicant will give a presentation along with the Principle Planner and Township Engineer.

No comments from the Commission or the audience.

Motion Jahr, Boynton second to close the public hearing.

Roll Call:

Yeas: Budd, Atchinson, Kelley, Boynton, Jahr, Franzoi and Thompson.

Nays: None.

Absent: None.

Motion Carried.

NEW BUSINESS:

ITEM #1: 20-012 – SPECIAL LAND USE: JIFFY LUBE MINOR VEHICLE SERVICE SPECIAL LAND USE.

APPLICANT, JIFFY LUBE INTERNATIONAL, INC. IS REQUESTING ON BEHALF OF OWNER MEIJER, INC. TO CONSTRUCT A MINOR VEHICLE SERVICE USE ALONG WITH RELATED SITE IMPROVEMENTS. THE PROPOSED +/- 3,064 SQUARE FOOT, SINGLE-STORY BUILDING IS LOCATED ON THE SOUTH SIDE OF TYLER ROAD EAST OF BELLEVILLE ROAD ON A PROPOSED +/- 0.71 ACRE OUTPARCEL TO BE DIVIDED AND CREATED FROM PORTIONS OF THE 39.4 ACRE PARCEL AT 9701 BELLEVILLE ROAD (83-058-99-0006-705) AND A VACANT 1.33 ACRE PARCEL (83-058-99-0006-707). THE PROPERTY IS ZONED C-2 EXTENSIVE HIGHWAY BUSINESS DISTRICT AND IS LOCATED IN THE BELLEVILLE ROAD OVERLAY DISTRICT (BROD).

Tim Kratz, a representative of Jiffy Lube International, Inc. gave the presentation. The minor service center is meant for quick service and provides a multi care program with extended services. All services are from 30 minutes to 2 hours maximum in order to get customers in and out. The customer will pull up to a bay where an employee will take their order, then the customer will go to a waiting room while the employee pulls the vehicle into the bay for service and upon service completion the vehicle will be parked in the side lot for the customer. Typical minor services provided are oil changes, battery replacement, brakes, filters, fluids and inspections. Traffic at the site is anticipated at approximately 50-60 cars per day. Jiffy Lube is working with Meijer as their national franchisee. A color rendering and the preliminary site plan were displayed during the applicant's presentation. All trees and natural vegetation will be kept in order to minimize disturbance and maintain natural features.

Vidya Krishnan of McKenna Associates presented her special land use review letter dated 10-27-20. The proposed use meets the general standards for consideration of special land use approval and the specific conditions related to the use. Therefore, McKenna Associates recommends the Planning Commission recommend approval of the special land use to the Township Board of Trustees, subject to site plan approval.

No comments from the Commission or the audience.

Motion Boynton, Atchinson second to recommend to the Township Board of Trustees special land use approval for Jiffy Lube International, Inc. to construct a minor vehicle service use along with related site improvements located on the south side of Tyler Road east of Belleville Road on a proposed 0.71 outparcel to be divided and created from portions of the 39.4-acre parcel at 9701 Belleville and a vacant 1.33-acre parcel, subject to the recommendations in the McKenna Associates review letter dated 10-27-20.

Roll Call:

Yeas: Atchinson, Budd, Kelley, Boynton, Jahr, Franzoi and Thompson.

Nays: None.

Absent: None.

Motion Carried. (Letter Attached)

ITEM #2: 20-012 – PRELIMINARY SITE PLAN APPROVAL: JIFFY LUBE MINOR VEHICLE SERVICE SPECIAL LAND USE.

APPLICANT, JIFFY LUBE INTERNATIONAL, INC. IS REQUESTING ON BEHALF OF OWNER MEIJER, INC. TO CONSTRUCT A MINOR VEHICLE SERVICE USE ALONG WITH RELATED SITE IMPROVEMENTS. THE PROPOSED +/- 3,064 SQUARE FOOT, SINGLE-STORY BUILDING IS LOCATED ON THE SOUTH SIDE OF TYLER ROAD EAST OF BELLEVILLE ROAD ON A PROPOSED +/- 0.71 ACRE OUTPARCEL TO BE DIVIDED AND CREATED FROM PORTIONS OF THE 39.4 ACRE PARCEL AT 9701 BELLEVILLE ROAD (83-058-99-0006-705) AND A VACANT 1.33 ACRE PARCEL (83-058-99-0006-707). THE PROPERTY IS ZONED C-2 EXTENSIVE HIGHWAY BUSINESS DISTRICT AND IS LOCATED IN THE BELLEVILLE ROAD OVERLAY DISTRICT (BROD).

Vidya Krishnan of McKenna Associates presented her preliminary site plan review letter dated 10-30-20, recommending the Planning Commission approve the preliminary site plan, subject to the following conditions:

1. Lot split and combination must be completed prior to the start of construction.
2. Copy of an irrevocable shared parking and cross access easement agreement with Meijer must be provided.
3. The proposed stormwater detention system must be reviewed and approved by the Township Engineer and Wayne County. Any planting around the drainage areas are under Wayne County's jurisdiction. The planting plan for this area must be provided and approved by the County.
4. The applicant must clarify that the proposed shrubs located around the parking lot will be 3 feet in height within 12 months of planting.
5. The proposed photometric plan must include the plaza area illumination for safety.
6. The proposed building architecture must be revised to include true brick and additional brick accent bands or alternate designs to comply with the BROD standards.
7. Special land use approval by the Township Board of Trustees.

Paul Kammer of Fishbeck Associates presented his preliminary site plan review letter dated 10-27-20, recommending the Planning Commission grant the Jiffy Lube Multiservice Center preliminary site plan approval for engineering feasibility, subject to the comments in the review letter and in accordance with the Township's Engineering Standards manual.

Chairperson Thompson presented the Van Buren Fire Department review letter dated 10-28-20 with the following comments for conditional approval:

1. Two-Way Radio Communication Enhancement Systems are required for all new construction, unless after finished construction the occupant can prove through a signal test with the AHJ that it is not needed. NFPA 1 2018 11.10.1
2. An E Knoxbox is require per NFP 1 2018 edition 18.2.2.1 per the AHJ.

Commissioners discussed the following questions and comments:

- How will the drainage effect the reports of additional flooding long Tyler Road east? The goal of the development is to hold back any excess runoff with a properly installed and maintained system, the excess runoff would be minimal to the system.
- Did the applicant agree to use the more durable brick for the exterior façade? Yes, the applicant has agreed to the conditions.
- Is the service center a 4-bay or 8-bay and how does the traffic flow? It is a 4-bay with traffic moving from east to west. Pavement striping will show the traffic flow, entrance and exit and arrows for the bays.
- Does the side lot have enough room to stack a reasonable amount of vehicles? Yes, and the driveways are 2 cars wide with a separate entrance and exit.
- In regard to the drive-in services, are there hoists or pits for oil changes? The 2 bays closest to the customer area have a pit and are intended for the fastest quick service group, while the other 2 bays have hoists and the availability to lift the vehicle.
- Will there be 5 employees at any given time? At peak there will be 5 employees, staffing will be adjusted for high and low business times.
- Will the center be open on Sunday? The applicant plans to be open 7 days a week from 7:00 a.m. to 8:00 p.m. for their standard hours. Those hours may be adjusted as they begin to operate in order to base them on when they are receiving the most traffic.

No comments from the audience.

Motion Boynton, Franzoi second to grant preliminary site plan approval to Jiffy Lube International, Inc. to construct minor vehicle service use along with related site improvements, subject to the recommendations in the McKenna Associates review letter dated 10-30-20, comments in the Fishbeck Associates review letter dated 10-27-20 and Fire Department Review letter dated 10-28-20.

Roll Call:

Yeas: Jahr, Boynton, Kelley, Atchinson, Budd, Franzoi and Thompson.

Nays: None.

Absent: None.

Motion Carried. (Letters Attached)

ITEM #3: RESOLUTION OF ADOPTION: VAN BUREN TOWNSHIP 2020 MASTER PLAN UPDATE.

THE CHARTER TOWNSHIP OF VAN BUREN HAS COMPLETED A DRAFT TO ITS MASTER PLAN. CONSISTENT WITH THE PROVISIONS OF MICHIGAN PUBLIC ACT 33 OF 2008, AS AMENDED (THE MICHIGAN PLANNING AND ENABLING ACT), FOLLOWING A PUBLIC HEARING TO HEAR COMMENTS REGARDING THE DRAFT OF THE FULL UPDATE TO THE MASTER PLAN, THE PLANNING COMMISSION WILL PASS A FORMAL RESOLUTION OF ADOPTION OF THE VAN BUREN TOWNSHIP

Charter Township of Van Buren

REQUEST FOR BOARD ACTION

Agenda Item _____

WORK STUDY MEETING DATE:
2020-12-01

BOARD MEETING DATE:
2020-12-01

Consent Agenda _____

New Business X _____

Unfinished Business _____

Public Hearing _____

ITEM (SUBJECT)	AMI Meter Replacement Contract Award
DEPARTMENT	Public Services – Water & Sewer
PRESENTER	James T. Taylor, Water & Sewer Director
PHONE NUMBER	734-699-8947
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Matthew Best, Public Services Director

Agenda topic

ACTION REQUESTED	
Recommend the Township Board of Trustees award the contract for the AMI Meter System Replacement Project to ETNA Supply, Inc. in the not to exceed amount of \$1,968,115.00.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
See attached information.	
BUDGET IMPLICATION	To be paid from the Water & Sewer Capital Outlay 592-537-970-003.
IMPLEMENTATION NEXT STEP	Approval by Township Board.
DEPARTMENT RECOMMENDATION	Approval recommended by Water & Sewer Director
COMMITTEE/COMMISSION RECOMMENDATION	
ATTORNEY RECOMMENDATION	Reviewed and approved contract as presented.
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	<u>Daniel Selman</u>



DEPARTMENT OF PUBLIC SERVICES

WATER & SEWER

DATE: December 1, 2020
TO: Township Board of Trustees
FROM: James T. Taylor, Director of Water & Sewer
RE: Bid Recommendation Proposed Meter Reading System Replacement Project

As I previously noted to the Board on August 18, 2020, the Township's existing AMI meter reading system and meters has become technologically outdated and is being decommissioned by ITRON on December 31, 2020. The present ITRON meter reading system that the Township has used for the past 10 years is technologically labeled a "closed architecture" or "proprietary" system. This means that the meter works with one specific reading system and vis-a-versa. In 2018, the Water & Sewer Commission was also informed of the status of our reading system, as well as viewing presentations from several potential vendors on the newer technologies presently available.

There are three specific requests I am putting before the Board requesting approval of my recommendations. All three requests are parts of the one AMI Meter System Replacement Project.

1. Bid Package Proposal

Following Board approval, an RFP (Request for Proposal) for an "open architecture" system and meters was developed and published to secure bidders for a replacement system and meters for Van Buren Township. It was estimated that this project would cost approximately \$2.2 to \$2.7 million for the replacement of the entire system. We have the funds in our Capital Revenue Restricted Fund to cover either the cost of low interest bonds, or to pay directly, whichever is the Board's desire. These existing funds allow for no increase to customer rates to fund this project.

We received three bids for this project. They are listed below:

- Ferguson (Neptune Meters) \$2,734,876.27
- United Systems (Zenner Meters) \$2,590,950.00
- ETNA Supply (Sensus Meters) \$1,968,115.00

MISSION STATEMENT

"The Van Buren Public Services Department is committed to a clean and safe environment, enhanced service delivery to its customers and protection of the significant public investment in the township's buildings and grounds, and water distribution and sanitary collection systems."



DEPARTMENT OF PUBLIC SERVICES

WATER & SEWER

I have included in your packets for your review:

- the bid cost breakdown sheet submitted by the vendor
- a copy of the bid response by the vendor
- a copy of the contract that has been reviewed and approved by the Township attorney

RECOMMENDATION: *After review of the submitted bids and the associated documentation provided by each of the listed vendors, it is my recommendation that the Board of Trustees approve a contract with ETNA Supply, Inc. for the amount of \$1,968,115.00 for a replacement AMI reading and metering system for Van Buren Township. This bid includes all the required equipment and software to operate an effective and efficient open architecture metering and billing system.*

2. Spectrum Lease Agreement

The lease agreement with the FCC and Sensus Meters is to provide frequency levels for use of the Sensus radio meter equipment. There is no cost to the Township for the application or lease agreement.

This is a one-time agreement which does not have to be renewed, as long as the Township utilizes the Sensus meter reading system. The agreement has been reviewed by the Township attorney. and has stated that there are no issues for Township authorization. The document will be prepared for signing by the Township Supervisor following Board approval.

RECOMMENDATION: *With approval of the AMI Meter Replacement Project with ETNA Supply, Inc. I am recommending the Board authorize the Supervisor, as representative of Van Buren Township to sign the Spectrum Lease agreement application.*

3. Optional Meter Project Items

In the RFP (Request for Proposal) for an "open architecture" system and meters was a section for bidders to provide additional items not required for the initial installation of the replacement system. This was an opportunity for the Township to take advantage of potential savings in the meter project.

MISSION STATEMENT

"The Van Buren Public Services Department is committed to a clean and safe environment, enhanced service delivery to its customers and protection of the significant public investment in the township's buildings and grounds, and water distribution and sanitary collection systems."



DEPARTMENT OF PUBLIC SERVICES

WATER & SEWER

Etna Supply, Inc. in the Bid Breakdown document, under OPTIONAL PRICING lists items that may be of interest to the Board to receive savings over the next several years.

Here is a list of the optional items for Board consideration for approval:

- Replacement of sixteen existing 3" meters - \$26,640.00
- Replacement of fourteen existing 4" meters - \$40,950.00
- Replacement of five existing 6" meters - \$4,640.00
- Extended maintenance of AMI system (year 2 - \$21,575.00 / year 3 - \$22,710.00)

The total cost for the options is \$135,075.00.

It is anticipated that over the next three years these costs will increase by five to seven percent, thus bringing the cost for these items to \$144,530.35. By approving these items, the Board would realize future savings estimated at \$9,455.35. In addition, while performing the installation of the larger meters in-house is an option and may provide some minimal savings, staff availability would extend the installation time line, which may also result in additional lost revenue from lower efficiencies in the existing meters. In other words, the earlier they are installed and operating, the quicker we meter at the more efficient level.

As noted earlier, we have the funds in our Capital Revenue Restricted Fund to cover the cost. These existing funds allow for no increase to customer rates to fund this project.

RECOMMENDATION: *It is my recommendation that the Board of Trustees approve the additional items for inclusion in the scope of the project at a cost of \$135, 075.00.*

MISSION STATEMENT

"The Van Buren Public Services Department is committed to a clean and safe environment, enhanced service delivery to its customers and protection of the significant public investment in the township's buildings and grounds, and water distribution and sanitary collection systems."

BID COST BREAKDOWN

BIDDER NAME: ETNA SUPPLY CO.

	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	WATER METERS and MIU's (including valves, pipes, fittings, etc.)				
1.1	5/8"	3281	Each	\$ 230 ⁰⁰	\$ 754,630 ⁰⁰
1.2	3/4"	1	Each	\$ 255 ⁰⁰	\$ 255 ⁰⁰
1.3	1"	3140	Each	\$ 280 ⁰⁰	\$ 879,200 ⁰⁰
1.4	1-1/2"	130	Each	\$ 725 ⁰⁰	\$ 94,250 ⁰⁰
1.5	2" T10	154	Each	\$ 805 ⁰⁰	\$ 123,970 ⁰⁰
	2" Compound	2		1440 ⁰⁰	2880 ⁰⁰
1.11	Subtotal Part 1 (WATER METERS)				\$ 1,855,185 ⁰⁰

	DESCRIPTION	QUANTITY (See Notes at end of this section)	UNIT	UNIT PRICE	AMOUNT (See Notes at end of this section)
3	AUTOMATIC METER INFRASTRUCTURE (AMI) SYSTEM				
3.1	Complete fixed base AMI System		Lump Sum	\$	\$ 81,650 ⁰⁰
3.2	Interface equipment and software for the BS&A Software/AMI interface, including installation.		Lump Sum	\$	\$ INCLUDED
3.3	Data file format for interface with standard utility billing system				INCLUDED
3.4	Subtotal Part 3 (AMI SYSTEM)				\$ 81,650 ⁰⁰
4	SPARE PARTS AND EQUIPMENT (unit prices include delivery to TOWNSHIP)				
4.1	5/8" Meter	1	Each	\$ 60 ⁰⁰	\$ 60 ⁰⁰
4.2	3/4" Meter	1	Each	\$ 85 ⁰⁰	\$ 85 ⁰⁰
4.3	1" Meter	1	Each	\$ 110 ⁰⁰	\$ 110 ⁰⁰
4.4	1-1/2" Meter #18	1	Each	\$ 285 ⁰⁰	\$ 285 ⁰⁰
4.5	2" Meter T-10 #18	1	Each	\$ 295 ⁰⁰	\$ 295 ⁰⁰
4.6	2" Meter Compound #18	1	Each	\$ 690 ⁰⁰	\$ 690 ⁰⁰

4.7	Meter Interface Unit with Integrated Battery	1		105 ⁰⁰	105 ⁰⁰
4.8	Battery for Meter Interface Unit	-	Each	\$ N/A	\$ -
4.9	Hand-held Interrogation Unit and up/downloading system.	1	Each	\$ 1650 ⁰⁰	\$ 1650 ⁰⁰
4.10	Battery for Hand-held Interrogation Unit	-	Each	\$ N/A	\$ -
4.11	Battery for Hand-Held MIU Programming Units (if separate from Hand-held Interrogation Unit)	-	Each	\$ N/A	\$ -
4.12	Subtotal Part 4 (SPARE PARTS AND EQUIPMENT)				\$ 3280 ⁰⁰
5	LUMP SUM COST FOR ALL OTHER WORK NOT INCLUDED UNDER ITEMS 1 THROUGH 4				
5.1	Mobilization		Lump Sum	\$ 5000 ⁰⁰	\$ 5000 ⁰⁰
5.2	Performance Bond		Lump Sum	\$ 20,000 ⁰⁰	\$ 20,000 ⁰⁰
5.3	Payment Bond		Lump Sum	\$	\$ INCLUDED
5.4	O&M Manuals		Lump Sum	\$ 1500 ⁰⁰	\$ 1500 ⁰⁰
5.5	Training and Training Manuals		Lump Sum	\$ 1500 ⁰⁰	\$ 1500 ⁰⁰
5.6	Subtotal Part 5 (LUMP SUM ITEMS)				\$ 28,000 ⁰⁰
DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	AMOUNT
6	OPTIONAL PRICING				
6.2	Replacement of all existing 3" WATER METERS (including valves, pipes, fittings, etc.)	16	Each	\$ 1665 ⁰⁰	\$ 26,640 ⁰⁰
6.3	Replacement of all 4" WATER METERS (including valves, pipes, fittings, etc.)	14	Each	\$ 2925 ⁰⁰	\$ 40,950 ⁰⁰
6.4	Replacement of all 6" WATER METERS (including valves, piping, fittings, etc.)	5	Each	\$ 4640 ⁰⁰	\$ 23,200 ⁰⁰
6.5	Extended maintenance of AMI System and BS&A Software Billing System interface for two years including: hosting, storage and maintenance of data collection units and computer hardware and software, and technical customer support service.			-	-
6.5.1	Year 1: \$ 21,575 ⁰⁰ (2)		Lump Sum	\$ 21,575 ⁰⁰	\$ 21,575 ⁰⁰
6.5.2	Year 2: \$ 22,710 ⁰⁰ (3)		Lump Sum	\$ 22,710 ⁰⁰	\$ 22,710 ⁰⁰
6.5.3	Total two-year extended maintenance cost (5.1.1 +5.1.2)		Lump Sum	\$ -	\$ -

6.6	Subtotal Part 6 (OPTIONAL PRICING)				\$ 135,075 ⁰⁰
7	TOTAL PROPOSED COST (1.11+2.5+3.4+4.11+5.6)				\$ 1,968,115 ⁰⁰

(One Million Nine Hundred Sixty Eight Thousand One Hundred Fifteen) ⁹⁹/₁₀₀ Dollars and _____ Cents)

Notes:

Unit price quantities listed in the Bid Cost Breakdown are approximate. Bidders are to understand that actual quantities may under-run or over-run the unit price work items in the Bid Cost Breakdown of the executed Contract. The Contractor will only be paid based on the actual units installed.

All Work required by the Contract Documents that is not specifically covered by the Unit Price Work is considered as included in the lump sum portion of the Work.

If the provision of an item does not apply, the Bidder shall enter the words "Not Applicable" in the "Unit Price" and "Amount" columns.

Bidder herewith declares that the Bid Cost Breakdown includes all items of services, obligations, responsibilities, materials, tools and devices, all necessary equipment, commissioning, royalties and license fees, construction equipment, taxes, escalation for the duration of the Contract, site clean-up and restoration traffic control, control surveys, field offices, close-out, independent testing laboratory services, overhead and profit and all connections, appurtenances and any other incidental items of any kind or nature, as are necessary to complete the Work in accordance with the Contract Documents.

The Bidder agrees to perform the Work encompassed by each item on the Bid Cost Breakdown at the established unit price, as directed by the Township and regardless of the variation in the quantity.

AGREEMENT

This "Agreement" is made as of November __, 2020 ("Effective Date"), by and between the Van Buren Charter Township, with offices located at 46425 Tyler Road., Van Buren Twp., MI. 48111 (the "Owner") and Etna Supply Co. a Michigan Corporation, with offices located at 4901 Clay Ave SW, Michigan, MI 49548 ("Distributor"), and .

Recitals:

- A. Distributor is an independent distributor serving a market area for products made by Sensus USA, Inc. ("Sensus"), including electric and water flow measurement products, Automatic Meter Reading (AMR), and Advanced Metering Infrastructure (AMI).
- B. The Owner desires to purchase from Distributor such products and services as described in the attached **Exhibit A** (the "Project").
- C. The Owner has entered, or will enter, into an Advanced Metering Infrastructure Agreement with Sensus (the "AMI Agreement").

In consideration of these premises and the mutual agreements hereinafter set forth, the parties agree as follows:

- 1. **Incorporation of Recitals.** All of the Recitals are true and incorporated herein by reference.
- 2. **Contract Amount.** The Owner agrees to pay to Distributor the sum of One Million Nine Hundred and Sixty-Nine Thousand, One Hundred and Fifteen Dollars and 00/100 (\$1,968,115.00) for those items described in **Exhibit A** (the "Contract Price"). For any items relating to the Project in addition to those set forth on **Exhibit A**, the Owner shall pay the price, and in the manner, as invoiced by Distributor.
- 3. **Schedule of Work.** The parties agree to the following estimated schedule of work:
 - a. Distributor is not required to place any order for any product until the Effective Date.
 - b. Distributor shall install the base stations first, and within 90 days from the Effective Date.
 - c. Distributor shall complete the meter and Smart Point installation within 270 days after the last base stations are installed.
 - d. If Distributor is delayed in performance of any of its obligations under this Agreement by any cause beyond its control, then it shall be entitled to an extension of time for any deadlines set forth herein, commensurate with length of such delay.
- 4. **Terms of Sale.** Except as modified herein, all purchases will be governed by Distributor's Terms and Conditions of Sale, which Terms and Conditions can be located at <https://www.etnasupply.com/Terms-and-Conditions-of-Sale>, and which Terms and Conditions are incorporated by reference into this Agreement. In no event shall any terms in any purchase order, confirmation or other document issued by the Owner or its agents or representatives be binding on Distributor.

- a. **Payment.** Distributor may invoice the Owner for goods sold under this Agreement when such goods are delivered to Distributor at Distributor's staging site(s) in or around Van Buren Twp., MI. Distributor may invoice the Owner monthly for services under this Agreement for the amount of goods installed, or other services provided, the previous month. The Owner shall pay Distributor the invoiced amounts within 21 days of receipt of the invoice. A time-price differential charge equal to 1.7% per month (20.4% per annum) will be charged on all balances not paid when due. If the Owner's financial responsibility shall become unsatisfactory to Distributor at any time and for any reason, Distributor shall have the right, in addition to whatever other rights Distributor may have at law or equity, to require payment in cash or to obtain satisfactory security from the Owner before making any further deliveries. In case any payment is not made when due, Distributor shall have the right, in addition to its other remedies, to seek specific performance of this Agreement, to suspend any further deliveries, alter payment terms, or terminate this Agreement. Approval of credit for one or more deliveries shall not be deemed a waiver of this provision.
- b. **Hosting Fee.** If the Owner has purchased hosting services, then Owner shall pay for such hosting services within 30 days of the invoice date. If Owner fails to pay for the hosting services within 30 days of the invoice date, then without further notice or opportunity to cure, Contractor may terminate the hosting services, which will result in Owner's inability to access meter data.
- c. **Limited Installation Services Warranty, Exclusive Remedy, Exceptions and Disclaimer.**
- i. Distributor warrants that its installation services will be free from defect for one (1) year following installation. The one year period begins to run on the date the individual product was installed. The Owner shall notify Distributor in writing of any claimed defect within thirty (30) days following the appearance of such defect. Failure of the Owner to provide such notice will void this Limited Installation Services Warranty.
 - ii. Extent of Warranty Obligations/Exclusive Remedy: Subject to the exceptions set forth below, Distributor's obligations under this Limited Installation Services Warranty are limited to the costs of correcting the defect attributable to Distributor's installation services. Except for such costs of correction, Distributor shall not be liable to the Owner or any other person or entity for damages of any kind, including, without limitation, indirect, special, incidental, consequential or punitive damages, arising from the goods or services sold hereunder or in connection with the use or inability to use such goods or services for any purpose whatsoever, irrespective of whether the claims or actions for such damages are based upon contract, tort, negligence, strict liability, warranty or otherwise. In no event shall Distributor incur any liability whatsoever for damages of any kind arising out of or relating to delay in delivery. Without narrowing the breadth of the type of damages excluded by this provision, which provision shall be interpreted as broadly in favor of Distributor as the law permits, the following damages are specifically excluded:
 - 1. Any damages for lost revenue, including without limitation, revenue relating to electricity, gas or water consumption;
 - 2. Any damages relating to transportation of goods; and

3. Any damages relating to manual meter reading costs and expenses.

iii. Exceptions to Limited Installation Services Warranty:

1. Distributor does not warrant any goods sold under this Agreement in any respect, such sale being on an "As Is" basis. Distributor does, however, hereby assign to the Owner any and all manufacturer's warranties relating to such goods sold under this Agreement to the extent such warranties are assignable. If this assignment is held to fail for any reason, then the Limited Warranty described above shall apply with respect to the goods sold.
2. This Limited Installation Service Warranty does not cover bodily injury or property damage to property other than the product installed by Distributor.

iv. **EXCEPT AS EXPRESSLY SET FORTH HEREIN, DISTRIBUTOR DISCLAIMS ALL WARRANTIES IN CONNECTION WITH THE GOODS AND SERVICES SOLD HEREUNDER, EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING WITHOUT LIMITATION DESCRIPTION, QUALITY, DESIGN, PERFORMANCE, SPECIFICATIONS, CONDITION, MERCHANTABILITY, AND FITNESS FOR ANY PARTICULAR PURPOSE. NO PERSON, INCLUDING THE OWNER AND/OR SENSUS, IS AUTHORIZED BY DISTRIBUTOR TO MAKE WARRANTIES OR ASSUME ANY LIABILITY FOR DISTRIBUTOR WITH RESPECT TO THE GOODS OR SERVICES SOLD HEREUNDER. ORAL STATEMENTS DO NOT CONSTITUTE WARRANTIES AND SHALL NOT BE RELIED ON BY THE OWNER AND ARE NOT PART OF THIS AGREEMENT. DISTRIBUTOR'S WARRANTY OBLIGATIONS AND THE OWNER'S REMEDY ARE SOLELY AS STATED IN THIS AGREEMENT.**

v. The disclaimer of warranties and limitation of liabilities set forth herein and/or in Distributor's Terms and Conditions of Sale shall apply even if the express warranty set forth above fails of its essential purpose. The Owner acknowledges and agrees that Distributor has set its prices and entered into this Agreement in reliance upon the disclaimers of warranty and the limitations of liability set forth herein, that the same reflect an allocation of risk between the parties (including the risk that a contract remedy may fail of its essential purpose and cause consequential loss), and that the same form an essential basis of the bargain between the parties. No other remedies shall be available to the Owner other than as set forth herein.

vi. Warranty Servicing Agent. Without accepting any liability for, or extending any warranty relating to, the goods sold under this Agreement, Distributor agrees to act as a Servicing Agent for the Owner's warranty claims against the manufacturer of such goods, so long as a valid warranty remains with respect to such goods. In that regard, Distributor will communicate such claims by the Owner to the manufacturer and use reasonable efforts to work with the manufacturer to satisfy the claim. The Owner may at all times contact the manufacturer directly and Distributor is not responsible for any delay, expense, costs or damages of the Owner relating in any way to such warranty claims.

- d. **Notice of Claims.** The Owner shall inspect the goods provided by Distributor immediately upon delivery. Notice of any claim for shortage or defects discoverable on such inspection shall be made to Distributor within fifteen (15) days thereafter. The Owner shall, upon Distributor's request, furnish reasonable proof of any claimed defect and Distributor shall be given an opportunity to investigate. Failure of the Owner to give notice of any claim within the specified period shall be deemed an absolute and unconditional waiver of such claim.
 - e. **Risk of Loss.** The goods sold pursuant to this Agreement are sold F.O.B. Distributor's place of business. The Owner assumes responsibility for all costs of transportation. If Distributor assists the Owner in this regard, it is agreed that such assistance is gratuitous, and Distributor shall have no obligation or liability arising out of such assistance. Distributor's responsibility for carriage of goods, if any, is addressed in paragraph 8.
 - f. **Force Majeure.** Distributor shall not be liable for any delay or impairment of performance resulting in whole or in part from any cause beyond Distributor's control including, without limitation, fires, floods, explosions, accidents or other catastrophes, acts of God, strikes, lockouts or labor disruption, wars, riots or embargo delays, government allocations or priorities, shortages of transportation, fuel, labor or materials, inability to procure the goods or raw materials, severe weather conditions, changes of law or regulation, inaccessibility of any worksite not caused by Distributor, or any other circumstance or cause beyond Distributor's control. Such excuse from performance shall extend so long as the event continues to delay or impair Distributor's performance.
 - g. **Field Representatives.** The services of Distributor's representatives in the field are offered on request and when personnel are available for such period of time and for such charge as Distributor deems appropriate. Any such service is offered only on the condition that Distributor shall not be deemed to have approved of, or in any manner to have assumed responsibility for, the engineering, design, supervision, inspection, or quality of the workmanship of the AMR products and/or the AMI System.
 - h. **Miscellaneous.**
 - i. Unless specifically noted otherwise, prices do not include present or future federal, state or local taxes. All taxes shall be the responsibility of the Owner.
 - ii. Prices do not include the cost of any independent laboratory inspection if such should be required.
 - iii. Quoted deliveries are based on estimates at the time of quotation. Distributor will devote its best efforts to meeting the delivery schedules but assumes no liability for additional costs or damages resulting from later deliveries.
5. **Additional Contract Documents.** The following attachments to this Agreement identify and clarify the parties' responsibilities pursuant to this Agreement, and are incorporated herein by reference. To the extent any term of this Agreement conflicts with anything set forth in the attachments identified in this paragraph, the terms of this Agreement will control.
- a. Distributor Responsibilities. **Exhibit B.**

b. The Owner Responsibilities. **Exhibit C.**

6. **Costs of Collection.** If either party shall default in any way on obligations under this Agreement, including without limitation the failure to make a timely payment, then the breaching party shall be liable to the other party for all costs of collection including, but not limited to, attorney's fees and expenses.
7. **Insurance/Bonding.** The Owner agrees to maintain and pay for such insurance coverage as is customary for entities such as the Owner, and in the amounts as is customary for entities such as the Owner. The Owner agrees and acknowledges that Distributor is entering into this Agreement in reliance on the Owner's representation that the policies of insurance contemplated by these provisions will be in place, with all premiums paid.
 - a. Such coverage must be maintained in a form and with companies acceptable to Distributor and must, notwithstanding the requirements of this section, cover bodily injury, and property damage.
 - b. Each policy of insurance must name Distributor as an additional named insured, on a primary and non-contributory basis, which may not be limited, and must provide that the same may not be canceled or altered, except upon thirty (30) days prior written notice to Distributor.
 - c. In the event any policy or policies of insurance that the Owner is required to maintain is written on a "claims made" insurance form, each policy must have a "retroactive date" which is not later than the date on which the parties entered into their agreement. Furthermore, should insurance coverage be written on a "claims made" basis, the Owner's obligation to provide insurance must be extended for an additional period equal to the statute of limitations for such claims in the State of Michigan, plus one year.
 - d. By executing this agreement, and thereafter upon request, the Owner must provide to Distributor a certification, signed by an authorized agent of the Owner and sworn to before a notary public under penalty of law, of the following: the Owner hereby certifies that it has not cancelled any insurance described herein, and that the Owner has not delivered, sent by overnight courier, mailed, faxed, sent by telegram, or transmitted by any other means any notice of cancellation of such insurance.
 - e. Certificates evidencing coverage by the policies of insurance identified in the provisions of this Agreement (the "Policies"), must be delivered to Distributor prior to the delivery of any goods or services and from time to time thereafter at Distributor's request. The delivery to Distributor of current certificates is an absolute condition precedent to any obligation by Distributor to the Owner.
 - f. The Owner is independently responsible for any desired coverage against damage or loss to its own materials, facilities, roofs, equipment, scaffolds, bracing and similar items not covered by other policies of insurance.
 - g. Distributor and the Owner waive all rights against each other, including, but not limited to, rights of subrogation for damages caused by fire and other perils to the extent covered by the insurance required to be maintained hereunder.

8. **Shipping Terms.** In addition to the other terms and conditions of sale, the following terms and conditions shall apply to Distributor's carriage of goods when Distributor is accommodating the Owner by delivering to the Owner, or on the Owner's behalf, goods that are purchased by the Owner from Distributor.
- a. The Owner's signature on a Shipping Manifest or similar document will be evidence of receipt of the goods identified in the Shipping Manifest and related documents in apparent good order and condition.
 - b. Distributor's liability for carriage of goods will end when Distributor arrives at the intended shipment destination or, as applicable, if Distributor is required by contract to unload the goods, when Distributor completes the unloading of goods at the intended shipment destination.
 - c. To pursue any claim arising from Distributor's carriage of goods, the Owner's claims must be filed with Distributor no later than 9 months after the delivery of the goods. Any civil action to recover damages or amounts claimed arising from carriage of goods must be commenced, if at all, within two (2) years after the delivery of the goods. Any claims not filed within the nine (9) month limitations period or suits not instituted within the two (2) year period are barred and Distributor will have no liability for such claims.
9. **Assignment.** The parties hereto have entered into this Agreement intending to be bound hereby, and this Agreement shall be a binding enforceable agreement and shall inure to the benefit of, and be enforceable by, the parties hereto, and to the parties' successors and permitted assigns. The rights granted to the Owner hereunder are personal and not transferable and the Owner shall not assign or transfer, directly or indirectly, any of its rights or obligations under this Agreement without the prior written consent of Distributor, which consent may be withheld for any reason or for no reason. Any attempted assignment or transfer by the Owner without the prior written consent of Distributor shall be void.
10. **Entire Agreement; Severability; Amendments; Waiver.**
- a. This Agreement constitutes the entire understanding between the parties hereto with respect to the subject matter hereof, and supersedes all prior and contemporaneous written or oral negotiations and agreements between them regarding the subject matter hereof. All terms and conditions, representations and operative terms representing the parties' agreement are set forth herein, and the parties acknowledge that there are no other terms and conditions, representations or other operative terms of this Agreement. Neither party shall be entitled to plead that there were additional inducements or oral terms.
 - b. If any provision of this Agreement shall be determined to be invalid or unenforceable under applicable law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remaining provisions of this Agreement.
 - c. No modifications, alterations, amendments, or variations of this Agreement shall be binding against Distributor unless the same is specifically set forth in a written contract signed by Distributor. Changes to the scope of the Project and the Contract Price may be made by Distributor by way of invoice. No such change by Distributor shall be effective if, within 10 days of receipt of such invoice, the Owner objects in writing.

- d. No waiver shall be deemed to have occurred unless the same is in writing and validly executed by each of the parties hereto. The failure of either party at any time to require performance by the other party of any provision hereof shall not affect in any way the right to require such performance at any later time nor shall the waiver by either party of a breach of any provision hereof be taken or held to be a waiver of such provision.
- e. The Owner hereby acknowledges and represents and warrants to Distributor that it has, as of the Effective Date, no legal claim or cause of action against Distributor of any nature whatsoever. Any and all claims or causes of action of any nature whatsoever, be it under a contract (including, without limitation, any earlier distribution agreement or representative agreement) in tort, under statute or otherwise, that the Owner could assert or bring against Distributor based on any facts arising prior to the Effective Date are hereby waived and released by the Owner. If the Owner asserts any such claim or cause of action, Distributor is entitled to all legal costs and attorneys' fees it incurs in defending such claim or cause of action.
11. **Governing Law/Jurisdiction-Venue/Statute of Limitations:** This Agreement shall be governed by and construed in accordance with the laws of the State of Michigan without regard to its conflict of law doctrine. By entering into this Agreement, the Owner waives any right to a jury trial. By entering into this Agreement Distributor agrees to submit itself to jurisdiction in Michigan and to venue in any state or federal court located in Kent County, Michigan. **THE OWNER WAIVES ANY CAUSE OF ACTION ARISING OUT OF OR RELATING TO THIS AGREEMENT IN ANY WAY IF NOT BROUGHT WITHIN ONE (1) YEAR AFTER THE CAUSE OF ACTION FIRST ACCRUED TO THE OWNER.**
12. **Survival.** The provisions of this Agreement that are applicable to circumstances arising after its termination or expiration shall survive such termination or expiration.
13. **Definitions.** The definitions in the AMI Agreement are incorporated by reference into this Agreement, except that any term defined in this Agreement shall be interpreted as defined in this Agreement.
14. **Counterparts.** This Agreement may be executed in any number of counterparts, each of which shall be treated as an original, but all of which, collectively, shall constitute a single instrument.

IN WITNESS HEREOF, the parties hereto have duly executed this Agreement as of the date first written above.

Van Buren Charter Township

Etna Supply Co

By: _____

Its: _____

By: _____

Its: _____

Date: _____

Date: _____

EXHIBIT A – PROJECT DESCRIPTION

Description	Quantity	Unit Price	Total Price
RNI Setup Fee	1	\$ 6,400.00	\$ 6,400.00
SA-Enhanced Setup Fee	1	\$ 4,100.00	\$ 4,100.00
Annual RNI Hosting Fee - Year 1	1	\$ 11,500.00	\$ 11,500.00
Annual SA-Enhanced Water Hosting Fee - Year 1	1	\$ 9,000.00	\$ 9,000.00
SA-Enhanced Billing Integration Fee	1	\$ 3,500.00	\$ 3,500.00
RNI Education Fee	1	\$ 4,500.00	\$ 4,500.00
SA-Enhanced Education Fee - Remote	1	\$ 1,000.00	\$ 1,000.00
Sensus M400 Base Station	1	\$ 40,000.00	\$ 40,000.00
Trimble TDC-600	1	\$ 1,200.00	\$ 1,200.00
Sensus Command Link	1	\$ 450.00	\$ 450.00
Total			\$ 81,650.00
Description	Quantity	Unit Price	Total Price
accuSTREAM Meters - 5/8"	3,281	\$ 60.00	\$ 196,860.00
accuSTREAM Meters - 3/4"	1	\$ 85.00	\$ 85.00
accuSTREAM Meters - 1"	3,140	\$ 110.00	\$ 345,400.00
R2 Meters - 1-1/2"	130	\$ 400.00	\$ 52,000.00
R2 Meters - 2"	154	\$ 480.00	\$ 73,920.00
C2 Meters - 2"	2	\$ 1,115.00	\$ 2,230.00
Smart Points 510M - Single Port	6,708	\$ 95.00	\$ 637,260.00
Total			\$ 1,307,755.00
Description	Quantity	Unit Price	Total Price
Mobilization	1	\$ 5,000.00	\$ 5,000.00
Insurance and Bonds	1	\$ 20,000.00	\$ 20,000.00
O&M Manuals	1	\$ 1,500.00	\$ 1,500.00
Training & Training Manuals	1	\$ 1,500.00	\$ 1,500.00
Total			\$ 28,000.00
Description - Installation	Quantity	Unit Price	Total Price
Installation - 5/8" Water Meter	3,281	\$ 75.00	\$ 246,075.00
Installation - 3/4" Water Meter	1	\$ 75.00	\$ 75.00
Installation - 1" Water Meter	3,140	\$ 75.00	\$ 235,500.00
Installation - 1-1/2" Water Meter	130	\$ 230.00	\$ 29,900.00
Installation - 2" Water Meter	156	\$ 230.00	\$ 35,880.00
Total			\$ 547,430.00
Total			\$ 1,968,115.00

EXHIBIT B – DISTRIBUTOR RESPONSIBILITIES

Distributor's obligations relating to the Project are as follows:

1. General Responsibilities:

- a. To provide a project manager to coordinate all of Distributor's work pursuant to this Agreement, which project manager shall be the Owner's main point of contact for the installation of the goods purchased under this Agreement.
- b. Distributor may subcontract all or a portion of the work contemplated hereunder.
- c. As it relates to installation of meters, Distributor agrees to:
 - i. Exchange existing water meters with new meters at targeted locations.
 - ii. Program the FlexNet endpoint.
 - iii. Take digital photographs of exceptions identified in the field.
 - iv. GPS coordinate collection.
- d. Distributor shall not be responsible for the following:
 - i. Re-plumbing existing meter services.
 - ii. Work to correct lay length discrepancies. Any work that would be required because the existing meter has a different lay length than the specified new meter to be installed is not part of the Project. Any such work shall be performed, if at all, on a time and materials basis.
 - iii. Repair or correct any pre-existing code violations.
- e. Over the duration of the project, some service locations may be turned back to the Owner for repair if the meter service is deemed "inaccessible." Once the repair is made by the City, and so long as Distributor has completed 95% or less of the Project, Distributor will return and install the new meter and AMR transmitter using normal installations techniques. If the repair is made when Distributor has completed more than 95% of the Project, then Distributor shall not be required to return and install the new meter and AMR transmitter.
- f. "Inaccessible" is generally defined as a meter service location that is in a condition that prevents the removal of the existing meter and installation of a new meter using reasonable installation techniques. Conditions that may cause a meter to be classified as "inaccessible" include:
 - i. Locations where a faulty valve prevents Distributor from shutting off the water to the point where changing the meter is not practicable.
 - ii. Locations that cannot be reached for scheduling appointments
 - iii. Meters where the City's customer prevents Distributor from accessing the meter after three documented attempts are made to perform the change-out or schedule an appointment.
 - iv. Locations where corrective or additional plumbing is required.
- g. Any repair, remediation or remedy by the Owner called for herein must be performed within 2 weeks of receipt of notice that such repair, remediation or remedy is necessary. If the repairs, remediation or remedies are not timely made, then Distributor is not

required to perform the installation services at the location at issue, and the required metering products (meter, register, and transmitter) will be turned over to representatives of the Owner for installation at their convenience.

2. Responsibilities Relating to Sensus Network:

- a. Distributor has no responsibilities relating to Sensus network because the hardware and data management software will be housed at Sensus' Data Operations Center.

3. FlexNet Base Station Responsibilities:

- a. To provide to the Owner the appropriate current FlexNet Base Station Installation Guide to allow the Owner to perform the necessary site preparation work.
- b. To install, setup and configure FlexNet Base Station.

EXHIBIT C – THE OWNER’S RESPONSIBILITIES

The Owner’s obligations relating to the Project are as follows:

1. General Responsibilities:

- a. To provide a key point of contact to communicate with and be the interface with Distributor’s project manager to ensure timely installation of the AMI System.
- b. To provide legal access to all locations necessary to allow Distributor to perform the work contemplated by this Agreement.
- c. To pay all fees relating to network access for all sites where network access is needed.
- d. To provide a communication link between the Sensus network and the FlexNet Base Station.
- e. To purchase or acquire such hardware and/or software as necessary to connect the Sensus network to the Owner’s network.
- f. To pay for all fees relating to any software needed or used in connection with the work contemplated by this Agreement including but not limited to all Software identified in the AMI Agreement.
- g. After installation of the SmartPoint Modules, to be responsible to visit and troubleshoot SmartPoint Modules that are not reporting into the system. To investigate any non-reporting SmartPoint Modules to ensure that no cut wires, improper installation or improper programming exists, and to resolve all date entry errors in the AMI System.
- h. To provide to the Distributor a SmartPoint Module installation schedule, shipment quantities and overall Project timeline.
- i. To pay any taxes, renewals, regulatory or licensing fees associated with any work contemplated by the Agreement.
- j. To apply for and purchase all required work or other permits.
- k. To timely conduct repairs of meter service locations that are deemed “inaccessible.”

2. Responsibilities Related to Sensus Network:

- a. Obtain and pay for the acquisition and maintenance of the static IP addresses need to access the Sensus network and equipment, and provide the IP address to Sensus.
- b. Take all steps necessary to allow the Owner’s existing billing software to interface with the Sensus network.
- c. Provide all equipment and services necessary for any computer redundancy and/or backup system, including power backup.
- d. Provide to Sensus remote network access to allow Sensus to provide technical support.

3. FlexNet Base Station Responsibilities:

- a. To purchase the required number of Base Stations as identified by Sensus in the Propagation Analysis.

- b. To provide all products and services as identified in the applicable FlexNet Base Station Installation Guide.
- c. To provide an area at the Base Station for installation, if the Base Station is installed at a site provided by the Owner.
- d. To provide a power source to the Base Station. All necessary electric requirements will be located within 1 foot of the final location of the Base Station installation. If trenching of the power line is needed, the Owner will be responsible to provide the necessary trenching, conduit, and cabling needed to supply power from the power source to the Base Station cabinet. All electrical equipment and work will be installed and performed in accordance with local codes.
- e. To provide internet access to at the site where the Base Station is located to allow the FlexNet Base Station to communicate with the Sensus network.
- f. To provide CAT 5 UV and weather resistant network cabling from the internet network service provider access link to the Base Station cabinet. The Ethernet connector on the FlexNet Base Station unit is an RJ-45 type, 10/100 auto signaling rate. Minimum WAN bandwidth requirements are 128 kbps with a redundant path. Any network equipment to interface with the Base Station, such as juniper router, firewalls, switches, etc., will be provide by the Owner.
- g. To provide any conduit or trenching needed to run the internet data cable to the Base Station, and to ensure that the internet data cable is located within 1 foot of the final location of the Base Station.
- h. To provide connectivity information to Sensus (for example, IP address, default gateway and/or sub-net mask).
- i. To provide a proper ground field at the Base Station site.
- j. To provide a suitable antenna mounting structure such as a tower, monopole, or building that is capable of supporting the weight of the antenna, cable, mounting hardware and wind loading.



ADVANCED
METERING
INFRASTRUCTURE
BID

Response to Request for Proposal

FOR



OCTOBER 8, 2020

BID FORM

Return this completed form with your sealed Bid.

PLEASE SUBMIT TWO (2) 8 1/2" X 11" HARD COPIES WITH ORIGINAL SIGNATURES AND THREE (3) CLEARLY LABELED USB FLASH DRIVES WITH A DIGITAL COPY ON EACH IN PDF FORMAT. The bid will remain valid for a period of ninety (90) days from its due date and shall remain the property of the Charter Township of Van Buren as stated in Section 1.0 of this RFB.

Please complete the following:

If the Bidder is an individual:

NAME OF INDIVIDUAL: _____

NAME AND TITLE OF
PERSON AUTHORIZED TO SIGN: _____
(If not the individual, attach Power of Attorney)

SIGNATURE: _____

COMPANY NAME: _____

COMPANY ADDRESS: _____

PHONE: _____

FAX: _____

EMAIL: _____

If the Bidder is a Partnership:

BY: _____
(True Name of Partnership)

General or Managing Partner Authorized to Sign

SIGNATURE: _____
(Attach Evidence of Authority to Sign)

BUSINESS ADDRESS: _____

PHONE: _____


FAX: _____

EMAIL: _____

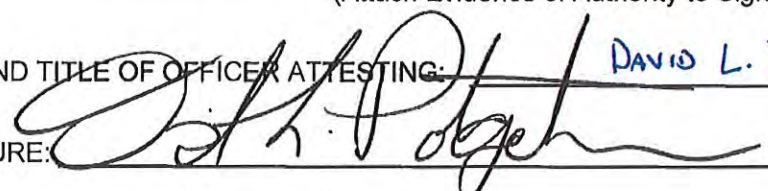
If the Bidder is a Corporation:

BY: ETNA SUPPLY Co.
(Legal Corporation Name)

NAME AND TITLE OF AUTHORIZED OFFICER: AL WEBER, MUNICIPAL D.N. Mgr

SIGNATURE: 
(Attach Evidence of Authority to Sign)

NAME AND TITLE OF OFFICER ATTESTING: DAVID L. POTGETER, PRESIDENT/CEO

SIGNATURE: 

BUSINESS ADDRESS: 4901 CLAY AVE SW
GRAND RAPIDS, MI 49548

STATE OF INCORPORATION: MICHIGAN

PHONE: (616) 241-5414

FAX: _____

EMAIL: munie@etnasupply.com



October 7, 2020

Authorization Memo

To Whom It May Concern:

Allen Weber, Etna Supply Municipal Division Sales Manager, is authorized to sign all municipal bids, proposals, contracts, etc. on behalf of Etna Supply Company.

Best Regards,

Derek Price

Derek Price
Director of Finance
Direct Phone: 616-514-5201
Email: dprice@etnasupply.com

CONSENT RESOLUTION OF THE DIRECTORS
OF
ETNA HOLDINGS, INC.

Section 525 of the Michigan Business Corporation Act provides that an action required or permitted to be taken at a meeting of the board of directors may be taken without a meeting if a consent in writing is signed by all of the directors entitled to vote. Russell J. Visner, R. David Potgeter, David L. Potgeter, Mark Potgeter, Ben Potgeter and Angie Oberlin, constituting all of the directors of Etna Holdings, Inc., a Michigan corporation, hereby consent in writing to the following:

1. Officers. The officers of the Company will be as follows:

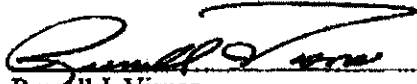
David L. Potgeter, President
Mark Potgeter, Vice President
Ben Potgeter, Vice President of Marketing
Angie Oberlin, Treasurer, Secretary and Vice President of Human Resources and Administration

2. Subsidiaries. The Directors for each of Etna Consolidated Group, Inc. and Etna Supply Company of Southeastern Michigan will be as follows:

Russell J. Visner
R. David Potgeter
David L. Potgeter
Mark Potgeter
Ben Potgeter
Angie Oberlin

The Company's President is authorized and directed to execute on behalf of the Company any shareholder resolution necessary to effectuate this appointment.

Dated: January 1, 2017



Russell J. Visner

R. David Potgeter

David L. Potgeter

Mark Potgeter

Ben Potgeter

Angie Oberlin

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R. David Potgeter

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David L. Potgeter

Mark Potgeter



Ben Potgeter

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Dated: January 1, 2017


Russell J. Visner

R. David Potgeter

David L. Potgeter

Mark Potgeter

Ben Potgeter



Angie Oberlin

DATE: 9-29-20

Addendum # 1

FOR PROJECT: Implementation of Advanced Metering Infrastructure (AMI) Program

The following items are to be considered as part of the Request for Bids and will clarify, alter, or amend the Implementation Plan. This Addendum shall be a part of the Contract Documents.

Sections: Revisions have been made to the Section (s) listed herein below.

The undersigned Bidder hereby acknowledges receipt of this Addendum on:

9-29, 2020.

BY: AL WEBER
AL WEBER
(Signature)

(Title)

Authorized by Township on:

(Signature)

(Title)

DATE: 9-29-20

Addendum # 2

FOR PROJECT: Implementation of Advanced Metering Infrastructure (AMI) Program

The following items are to be considered as part of the Request for Bids and will clarify, alter, or amend the Implementation Plan. This Addendum shall be a part of the Contract Documents.

Sections: Revisions have been made to the Section (s) listed herein below.

The undersigned Bidder hereby acknowledges receipt of this Addendum on:

9-29, 2020.

BY: AL Weber

(Signature)

(Title)

Authorized by Township on:

(Signature)

(Title)

DATE: 10-1-20

Addendum # 3

FOR PROJECT: Implementation of Advanced Metering Infrastructure (AMI) Program

The following items are to be considered as part of the Request for Bids and will clarify, alter, or amend the Implementation Plan. This Addendum shall be a part of the Contract Documents.

Sections: Revisions have been made to the Section (s) listed herein below.

The undersigned Bidder hereby acknowledges receipt of this Addendum on:

10-1, 2020.

BY: AL Weber

(Signature)

(Title)

Authorized by Township on:

(Signature)

(Title)

Charter Township of Van Buren

Deadline:

END OF BID

5. FINANCING

5.1 Financial Statement. (Will be required prior to executing Contracts)

5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);

Net Fixed Assets; Other

Assets;

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provisions for income taxes, advances, accrued salaries and accrued payroll taxes);

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

5.1.2 Name and address of firm preparing attached financial statement, and date thereof:

5.1.3 Is the attached financial statement for the identical organization named on page one?

5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-authority).

5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

ETNA IS A PRIVATELY HELD, OWNERS COMPANY. ETNA IS HAPPY TO SHARE OUR FINANCIAL STATEMENTS WITH VAN BUREN TWP THROUGH A NON-DISCLOSURE AGREEMENT. TO REVIEW THIS AGREEMENT & HAVE ACCESS TO OUR FINANCIAL RECORDS, PLEASE CONTACT: DENEEK PRICE, CONTROLLER (616) 514-5201, dprice@etnaupply.com

36

6. SIGNATURE

6.1 Dated at OCTOBER this 5TH day of 2020

Name of Organization: ETNA SUPPLY CO.

By: 

Title: MUNICIPAL DIVISION MGR

6.2

I _____ being,
duly sworn deposes and says that the information provided herein is true and sufficiently
complete so as not to be misleading.

Subscribed and sworn before me this OCTOBER 5TH day of 2020

Notary Public: Bethany T. Cassar-Whalen
My Commission Expires: 7/13/2025
Livingston County Michigan
Acting in Kent County

The Township may conduct vendor site visits. Please provide contact information to arrange a tour(s).

PRINTED NAME: ROLLY OLNEY

PHONE NUMBER: (734) 787-9057

EMAIL: rolney@etn9supply.com

NON-COLLUSION AFFIDAVIT

Return this completed form with your sealed Bid.

AL WEBER being duly sworn deposes and says:

That he/she is MUNICIPAL DIVISION MGR
(State Official Capacity in Firm)

The party making the foregoing Bid, that such Bid is genuine and not collusion or sham; that said bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to put in a sham Bid or to refrain from bidding and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the Bid price of affiant or any other bidder, or to fix any overhead, profit, or cost element of said Bid price or that of any other bidder, or to secure the advantage against the Charter Township of Van Buren or any person interested in the proposed contract; and that all statements contained in said Bid are true.


(Signature of person submitting Bid)

Subscribed and sworn this 5th day of October, 2020 before me, a Notary Public in and for said County.

Bethany T. Cassar Whalen
Notary Public Bethany T. Cassar Whalen

My Commission Expires: 7/13/2025
Livingston County, MI
Acting in Kent County

If the Bidder is A Joint Venture: EACH JOINT VENTURER SIGNING THE BID SHALL SIGN IN THE MANNER INDICATED FOR INDIVIDUALS, PARTNERSHIP OR CORPORATIONS. IF MORE THAN TWO JOINT VENTURERS OF THE SAME TYPE, USE ADDITIONAL PAGES.

Name of Individual: _____

Name of Individual: _____

Name and Title of Person Authorized to Sign: _____

Name and Title of Person Authorized to Sign: _____

By: _____
(If not the Individual, Attach Power of Attorney)

By: _____
(If not the Individual, Attach Power of Attorney)

Doing Business as: _____

Doing Business as: _____

Business Address: _____

Business Address: _____

Country of Registration: _____

Country of Registration: _____

Phone _____ FAX _____

Phone _____ FAX _____

By: _____
(True Name of Partnership)

By: _____
(True Name of the Partnership)

General or Managing Partner Authorized to Sign

General or Managing Partner Authorized to Sign

By: _____
(Attach evidence of Authority to sign)

By: _____
(Attach evidence of Authority to sign)

Business Address: _____

Business Address: _____

County of Registration: _____

County of Registration: _____

Phone _____ FAX _____

Phone _____ FAX _____

By: _____
(Legal Corporation Name)

Business Address: _____

State of Incorporation: _____

Name: _____

Phone _____ FAX _____

Title: _____

By: _____
(Attach Evidence of Authority to Sign)

Name and Title of Officer Attesting: _____

By: _____

By: _____
(Legal Corporation Name)

Name: _____

Title: _____

By: _____
(Attach Evidence of Authority to Sign)

Name and Title of Officer Attesting:

By: _____

Business Address: _____

State of Incorporation: _____

Phone _____ FAX _____

BID BOND

OWNER _____

CONTRACT IDENTIFICATION NUMBER _____

ADDRESS _____

CONTRACT
PRINCIPAL _____

DATE OF BID _____

ADDRESS _____

SURETY _____

DATE BOND EXECUTED _____

ADDRESS _____

AMOUNT OF BOND (in words and figures) _____

BOND NO. _____

WHEREAS, the Principal above-named has submitted to the Township a Bid, dated as shown above, on the above-numbered Contract. NOW, THEREFORE, we, the Principal and Surety, bind ourselves to the Township in the amount of the bond stated above, that if the above Bid is accepted, the Principal will promptly enter into the Contract according to the Bid and the Surety will furnish the required bonds, otherwise the Principal and/or Surety will pay the amount stated above unto the Township as liquidated damages.

Witness by:

(Principal) By _____
(Contractor)

(Principal) _____
(Title)

If the Contractor is a corporation, the following corporate certification must be executed.

I certify that I am the secretary of the corporation named Contractor/Principal in the attached bond; that _____, who signed the said bond for the principal, was then _____ of said corporation; that I know his signature, and his signature thereto is genuine; and that said bond was duly signed and witnessed for and in behalf of said corporation by authority of its governing body.

Witnessed by:

(Corporate Surety)

(Title)

LOCAL AGENT _____

AGENT'S PHONE _____

AIA Document A305
Contractor's Qualification Statement
 1986 Edition

This form is approved and recommended by The American Institute of Architects (AIA) and The Associated General Contractors of American (AGC) for use in evaluating the qualifications of contractors. No endorsement of the submitting party or verification of the information is made by the AIA or AGC.

The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO: VAN BUREN CHARTER TWP.

ADDRESS: 46425 TYLER RD - VAN BUREN TWP, MI 48111

SUBMITTED BY:

Corporation ☒

NAME: ETNA SUPPLY CO.

Partnership ☐

ADDRESS: 4901 CLAY AVE SW - GRAND RAPIDS, MI

Individual ☐

PRINCIPAL OFFICE:

Joint Venture ☐

Other ☐

NAME OF PROJECT (if applicable): IMPLEMENTATION OF THE ADVANCE METERING INFRASTRUCTURE (AMI) PROGRAM

TYPE OF WORK (file separate form for each Classification of Work):

_____ General Construction

_____ HVAC

_____ Plumbing

_____ Electrical

_____ Other _____
 (please specify)

1. ORGANIZATION

1.1 How many years has your organization been in business as a Contractor?

25 years - METER PROJECTS ONLY

1.2 How many years has your organization been in business under its present business name?

50+ years

1.2.1 Under what other or former names has your organization operated?

NONE

1.3 If your organization is a corporation, answer the follow:

1.3.1 Date of incorporation:

1.3.2 State of incorporation:

1.3.3 President's name: DAVID L. POTGETER

1.3.4 Vice-president's name(s)

ANGIE VIGNER

BEN POTGETER

MARK POTGETER

1.3.5 Secretary's name:

1.3.6 Treasurer's name:

1.4 If your organization is a partnership, answer the following:

1.4.1 Date of organization:

1.4.2 Type of partnership (if applicable):

1.4.3 Name(s) of general partner(s):

1.5 If your organization is individually owned, answer the following:

1.5.1 Date of organization:

Charter Township of Van Buren

Deadline:

1.5.2 Name of owner:

- 1.6 If the form of your organization is other than those listed above, described it and name the principals:

2. LICENSING

- 2.1 List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable. Contractor must be licensed in the State of Michigan.

- 2.2 List jurisdiction in which your organization's partnership or trade name is filed.

D+B

3. EXPERIENCE

- 3.1 List the categories of work that your organization normally performs with its own forces. -

- 3.1.1 List all proposed sub-contractors and identify the work they are to perform.

PROFESSIONAL METERS - METER INSTALLATION

GREY LAKES TOWER - BASE STATION / ANTENNA INSTALLATION

SL-SERIES - BASE STATION CONFIGURATION / SET UP

- 3.2 Claims and Suits (If the answer to any of the questions below is yes, please attach details)

- 3.2.1 Has your organization ever failed to complete any work awarded to it?

No

- 3.2.2 Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers?

No

- 3.2.3 Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years?

No

- 3.3 Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? (If the answer is yes, please attach details.) *No*
- 3.4 List any OSHA safety violations / citations which have occurred within the last five (5) years and state what has been done to correct those issues.

NONE

Completed Projects in Past 5 Years

City of Wayne

Stantec Consulting Michigan, Inc.

Project Total: \$2,522,340.00

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2017

City of Westland

Stantec Consulting Michigan, Inc.

Project Total: \$9,886,075.00

Meter Install (sub contracted) – 20%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2017

Village of Matawan

Self-Install Project (Etna Supplied installed the base Stations)

Project Total: \$150,000 – (upgrade from drive by system)

Project Completed: 2018

Genesee County

Project Total: \$4.2. Million

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2017

OKLAHOMA LOCATION

City of Woodward, OK

Project Total: \$1.6 Million

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%Project

Completed: 2020

Completed Projects in Past 5 Years

City of Wynnewood, OK

Project Total: \$550,000

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2020

City of Perry, OK

Project Total: \$1.4 Million

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2019

City of Fairview, OK

Project Total: \$640,000

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2019

City of Marlow, OK

Project Total: \$1.2 Million

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2018

City of Watonga, OK

Project Total: \$822,000

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2019

City of McAlester, OK

Project Total: \$975,000

Meter Install (sub contracted) – approx. 5%

Base Station/Antenna Install (subcontracted) – Approx. 1%

Project Completed: 2017

Current Projects in Progress

City of Wyoming

Self-Install Project (Etna Supply installed the base stations)

Project Total: Approx. 15,000 Smart Points on existing water meters

Project Completion: On-going (started in Dec 2019) 3-5 years

City of Grand Rapids

Self- Install Project (Etna Supply installed the base stations)

Project Total: Approx. 85,000 Smart Points on existing water meters & 18,500 lighting modules

Project Completion: On-going (started in 2018) No date set for completion

Brownstown Twp.

Upgrade from Drive-by system to Fixed Base AMI System

Project Total: Approx. 10,000 Smart Points on new and existing water meters.

Project Completion: On-going (started 2019) No date set for final upgrade.

City of Allen Park

C.E. Raines Co.

Project Total: \$1.5 Million – Meter Change out

Project Completion: 12 month completion timeframe

OKLAHOMA LOCATIONS

City of Muskogee, OK

Cowan Group Engineering

Project Total: \$2,837,245 – Meter & Smart Point Upgrades

Project Completion: Awaiting contract signatures

Current Projects in Progress

City of Roland, OK

Holloway, Updike, & Bellen

Project Total: \$528,000

Project Completion: 6 months completion timeframe

City of Waurika, OK

WDB Engineering

Project Total: \$353,000

Project Completion: 6 months completion timeframe

Key Individuals

ETNA Supply Co

Al Weber, Municipal Division Mgr.

33 years with Etna Supply, Over 40 years in the Waterworks business.
30 years in the supply, service, & installation of metering systems

Kevin Dieleman, Account Mgr.

3 years with Etna Supply, Over 10 years in sales and service

Bill Pitsch, AMR/AMI Specialist

20+ years with Etna Supply.

18+ years in the supply, service, installation, & project management of metering systems

Eric Carlin, AMR/AMI Specialist

10+ years with Etna Supply.

10+ years in the supply, service, installation, & project management of metering systems

5+ years in municipal water systems (IN)

Sensus Metering Systems – Xylem Inc.

Tyler Tucker, ADM,

Drew Scraton

Professional Meters, Inc.

See Attached

- 3.5 On a separate sheet, list all major construction projects your organization has in progress, giving the name of project, owner, engineer, contract amount, percent complete and scheduled completion date
- 3.5.1 State total worth of work in progress and under contract:
- 3.6 On a separate sheet, list the major projects your organization has completed in the last five years, giving the name of project, owner, engineer, contract amount, date of completion and percentage of the cost of the work performed with your own forces.
- 3.6.1 State average annual amount of construction work performed during the past five years:
- 3.7 On a separate sheet, list the construction experience and present commitment of the key individuals of your organization.

4. REFERENCES

4.1 Trade References:

AWWA
MBWA

4.2 Bank References:

CHASE BANK

4.3 Surety:

CNA SURETY

4.3.1 Name of bonding company:

WESTERN SURETY CORP.

4.3.2 Name and address of agent:

VAN DYKE RISK SOLUTIONS
150 OTTAWA NW
SUITE 1000
GRAND RAPIDS, MI 49503

ETNA

ADVANCED
METERING
INFRASTRUCTURE
BID

Response to Request for Proposal

FOR



OCTOBER 8, 2020

Contents

Letter of Transmittal	4
1 – Ability to Perform the Work	6
Project Understanding.....	7
Similar Project Experiences	7
ETNA Overview & Experience	7
References	7
Delta Charter Township – Lansing, MI.....	7
City of Livonia	8
City of Saginaw	8
City of Wayne	8
City of Westland	9
Experience Performance	9
Project Manager and Key Staff	9
Project Manager Experience	9
Performance and Payment Bonding Evidence	9
ETNA Financial Statements	9
About Sensus Metering – AMI System Supplier	10
Sensus Financial Statement	10
About PMI.	10
2 – Detailed Work Plan and Approach	11
Resumes of Personnel.....	12
Communication and Coordination with Township Departments	12
Plan for Public Information on Public Access.....	12
Proposed Sequencing of Work Schedule	13
Project Schedule	13
Plan for Notification and Scheduling of Customer Appointments	13
Plan for Water Shutoff Process if Access is not Granted	13
“Inaccessible” or “Non Installable” Meter Installations	13
Water	13
Utility Required Assistance:	14
Tracking Meters, MIUs, and Installation Progress	15
Base station installation	15
Meter Change out and electronic data transfer into billing software	15

Interface Management Plan.	15
<i>System Implementation and Testing</i>	16
Group 1. Project Initiation	16
Group 2. Project Planning	16
Group 3. Project Execution / Monitoring & Control	16
Group 4. Go-Live & Project Closeout	16
3 – AMI System Capabilities and Equipment	17
<i>Meter Interface Unit Connected to an Encoder Register</i>	18
<i>Type of Network Topologies</i>	18
All Paths Always (APA) Standard – Overlapping Coverage	18
<i>Meter Reading Database</i>	19
Sensus DA and SCADA Automation Solutions Overview	19
Vantage Point Lighting Solution overview and features	19
Key features	19
Municipal Lighting: The Problem – Streetlight Maintenance	19
<i>Process for Meter Reading Data Integration with the BS&A Software</i>	19
<i>Compatibility with the Township's Current Systems</i>	19
Interface Management Plan.	19
<i>Hardware Requirements and Specifications for Products</i>	20
Water Endpoint Radio	23
Residential Positive Displacement Water Meter	23
Commercial and Industrial Water Meter	24
<i>Billing Capabilities and Additional Data Capabilities</i>	25
Sensus Analytics & MDM	25
Key Business Decisions	26
Sensus Analytics with included MDM capability	28
<i>FCC Licensing Requirements</i>	29
FlexNet Primary-Use FCC-Licensed Spectrum	29
<i>Battery Requirements</i>	30
Base Station Power Supply and Batteries	30
<i>Warranties of Equipment</i>	32
Sensus G-500 Warranty Document	32
Etna's Supplemental to the RFP	34
<i>Maintenance Service Contracts</i>	34
<i>Licensing Fees</i>	35

<i>Encoder Register Replacement</i>	35
<i>Radio Frequency Device and Collector Maintenance</i>	35
Solution Recommendations	35
Frequencies Utilized.....	35
FlexNet Solution Overview	35
Sensus FlexNet System Communication	37
Smart Points.....	37
Licensed Spectrum Yields Performance, Reliability, and Risk Mitigation	38
Backhaul Outage Handling	39
<i>Fees for Location of Collection Devices</i>	40
<i>Radio Frequency Technology</i>	40
Competitive Advantages	40
Head End Collection of Meter Data / Head End to Meter Communication.....	40
Architectural Approaches	40
Signal Transmission Characteristics Privacy.....	40
Signal-To-Noise Ratio (Snr) & Interference.....	42
Range	42
Bandwidth Requirements	42
Latency	43
Distribution Automation	43
Supervisory Control and Data Acquisition (SCADA)	43
Conclusion: A Buyer's Guide to Smart Wireless Investing	44
<i>Special Access Requirements for Radio Antenna and Related Equipment</i>	44
Comparing Propagation Study Methods	44
Sensus Propagation Modeling Parameters	45
Preparing for a Propagation Study.....	46
Performing the Modeling.....	46
The Final Report.....	47
Township of Van Buren - Propagation Study results	47
4 – Additional Information	49
Residential Solid-State Remote Disconnect Water Meter	50

Letter of Transmittal

Letter of Transmittal

Public Services Department – Water & Sewer
46425 Tyler Road
Van Buren Township, MI 48111

TO WHOM IT MAY CONCERN:

ETNA Supply is pleased to respond to the Township of Van Buren request for proposal for the Implementation of the Advanced Metering Infrastructure (AMI) Program.

ETNA has prepared a comprehensive response describing our Sensus FlexNet AMI solution on how it addresses your technical requirements, drives business and processes for improved initiatives. The residential positive displacement meter, (accuSTREAM), is at the core of the proposal because of the way it can support the Township's vision.

During the course of ETNA's engagement with the Township of Van Buren, the primary contacts that will be readily available with respect to the RFP are:

Primary Contact:

Rolly Olney II
Account Manager
1090 36th St SE
Grand Rapids, MI
Phone: (800) 290-3862
Email: rolney@etnasupply.co

Alternate Contact:

Al Weber
Michigan Municipal Manager
1090 36th Street SE Suite 630
Grand Rapids, MI
Phone: (616) 745-9842
Email: aweber@etnasupply.com

We look forward to the opportunity to provide the Township of Van Buren with a high-performance AMI system and a highly successful implementation project.

Best Regards,



Al Weber, Municipal Division Mgr.
ETNA Supply

1 – Ability to Perform the Work

Project Understanding

An Advanced Metering System is a large investment by the Township of Van Buren. It is worth the cost because the new system will allow for greater knowledge and ease for the Township and its customers. The Township desires durability for its system so the equipment will be able to guarantee lasting benefits. In addition, the Township requires spare parts to be kept on hand by the contractor to ensure this durability. Ease is a quality the Township is eager to enjoy with a new system because it will have the flexibility to provide information according to the Township's needs. The Township seeks knowledge with an Advanced Metering system. Data will be able to be collected quickly and stored which can engage swift response to problems and equip customers with accurate usage information. ETNA has the experience, drive, and dedication to direct the project toward a completion which realizes the goals of the Township of Van Buren.

Similar Project Experiences

ETNA Overview & Experience

ETNA Supply was incorporated over 50 years ago, and has deployed 10 AMI FlexNet Systems, 250 AMR Systems, within Michigan. We pride ourselves as being a family owned company incorporated in the state of Michigan, with over 450 local employees and 21 distribution facilities in Michigan. We provide local sales, service, and supplies, with a wide range of metering and waterworks products.

ETNA has provided the Township of Van Buren with the most Advanced AMI Solution in the industry. Key attributing factors to this claim are as follows:

1. **PROTECTED** FCC Primary Licensed Spectrum
2. **LESS** Infrastructure
3. One System with **MULTIPLE** applications engineered for FlexNet
4. **2 WATT** endpoint transmission. Power = Range
5. **98.5% Water Meter Accuracy** guaranteed for 20 years

Supporting details covered in AMI System Capabilities and Equipment.

References

Company Name	Delta Charter Township – Lansing, MI
Contact Name	Dave Swink
Contact Phone	517-323-8571
Original Contract Budget	\$3 million
Etna Involvement	ETNA installed the Advanced Metering System for Delta Charter Township.
Completed on Time	Yes
Completed on Budget	Yes

Company Name	City of Livonia
Contact Name	Tom Tokarz
Contact Phone	734-466-2633
Original Contract Budget	\$5 million
Etna Involvement	ETNA is continuing to provide excellent support to the City of Livonia in their ongoing self install by the City
Completed on Time	Yes
Completed on Budget	Yes

Company Name	City of Saginaw
Contact Name	Dan Simmer
Contact Phone	989-759-1350
Original Contract Budget	\$3 million
Etna Involvement	ETNA supported the City of Saginaw as they self-installed their AMI system.
Completed on Time	Yes
Completed on Budget	Yes

Company Name	City of Wayne
Contact Name	Rick Lawrence
Contact Phone	734-721-8600
Original Contract Budget	3.7 million
Etna Involvement	ETNA worked with the City of Wayne to complete their Advanced Metering System installation. The City of Etna Installed and lead this project.
Completed on Time	Yes
Completed on Budget	Yes

Company Name	City of Westland
Contact Name	Mike Ditmer
Contact Phone	734-467-3204
Original Contract Budget	8 million
Etna Involvement	The ETNA completed the entire Advanced Metering Installation project for the City of Westland.
Completed on Time	Yes
Completed on Budget	Yes

Company Name	Village of Kalkaska
Contact Name	Angie Koon
Contact Phone	231-258-9191
Project Description	\$800,000
Etna Involvement	ETNA guided the Village of Kalkaska through the Advanced Metering Installation project.
Completed on Time	Yes
Completed on Budget	Yes

Experience Performance

ETNA's rich history demonstrates its ability to provide Advanced Metering solutions with goals met. All of the projects listed above have been completed on time and on budget. ETNA understands the importance of rigid project requirements and makes them priorities to uphold throughout the project. ETNA is a Michigan based company with an in depth knowledge of the unique circumstances of the state.

Project Manager and Key Staff

Project Manager Experience

Bill Pitsch and Eric Carlin plan to collaborate on Project Manager duties for the Township of Van Buren. They both have many years of experience working with communities to help them leverage their systems through enhanced data collection.

Performance and Payment Bonding Evidence

ETNA Financial Statements

ETNA is a privately held, owner-operated company. ETNA is happy to share our financial statements with the Township of Van Buren. Thru a non-disclosure agreement. To review this agreement and gain access to our financial records please contact:

Derek Price
Controller – ETNA Supply
(616) 514-5201
dprice@etnasupply.com

Request for Proposal



About Sensus Metering – AMI System Supplier

Sensus USA Inc., a Xylem Brand
8601 Six Forks Road, Suite 700, Raleigh, NC
<https://sensus.com/>

Sensus began providing Advanced Metering Infrastructure (AMI) in 2006, and currently has more than 900 AMI customers. Sensus has the most extensive experience serving combination electric, gas, and water utilities with over 100 active projects. Sensus has 43 two-service combination projects, with 35 of these projects containing water. Sensus is currently managing over 600 US AMI customers, 32 Canadian AMI customers, and 175 DA customers, providing a total of over 807 unique utility hosted customers today.

To date, Sensus has:

- Executed contracts for over 37 million endpoints (electric, water, and gas)
- Deployed over 18 million endpoints (electric, water, and gas)
- Deployed over 12 million electric endpoints

Sensus Financial Statement

Sensus has a very strong balance sheet, with revenues near \$1 billion annually, and this has been further strengthened by Sensus' acquisition by Xylem Inc. on November 1, 2016. Xylem's annual revenues are approximately \$4 billion. The combined companies (Sensus and Xylem) deliver approximately \$5 billion in total revenue.

Please follow this link to the financial statements for the year ended December 31, 2016 for Xylem Inc.: <http://investors.xylem-inc.com/phoenix.zhtml?c=247373&p=irol-sec>. Sensus is shown as a reporting unit of Xylem Inc. in the 10-K.

About PMI.

3605 North SR 47, Suite E
Morris, IL 60450
<http://www.prometers.com/>

Professional Meters Inc. (PMI) was founded in 1999 and has since set new standards in the automated meter installation industry. Customer satisfaction, product knowledge, and highly trained field personnel have made PMI a premier installation company. PMI handles all aspects of the meter replacement program. PMI coordinates with management staff to oversee the program, quickly and efficiently install the meters, and coordinate with the utility or municipality to integrate the data in an easily transferable manner.

2 – Detailed Work Plan and Approach

Resumes of Personnel

ETNA has access to hundreds of subject matter experts which they may call upon within the installation process, however we are pleased to present the following core team members:

Rolly Olney II | Account Manager, ETNA – Grand Rapids, MI

- Experience implementing AMR/AMI solutions
- Experience managing accounts through ETNA
- Experience working on-site with projects

Al Weber | Oklahoma / Michigan Municipal Manager, ETNA – Grand Rapids, MI

- 30 years of experience in sales and implementation of AMR/AMI Solutions
- 39 years of experience in Water and Electric Utility AMI Meter Project Solutions
- Deployed 42 AMI projects and 195 AMR projects in Oklahoma and Michigan
- Associate member of Oklahoma Municipal League, Oklahoma Municipal Power Authority, & Oklahoma Rural Water Association, lifetime member of AWWA, Associate member of Michigan Rural Water, Michigan Municipal League, Michigan Township Association

Eric Carlin – AMR/AMI Specialist, Etna Supply, Grand Rapids, MI

- 7 years of experience in sales and implementing AMR/AMI Solutions
- 20 years of Water and Wastewater Utility
- Associate Member of MRWA, AWWA, MML, MTA

Bill Pitsch – AMR/AMI Specialist, Etna Supply, Grand Rapids, MI

- 7 years of experience in sales and implementing AMR/AMI Solutions
- 20 years of experience in sales and implementation of AMR/AMI Solutions
- Associate Member of MRWA, AWWA, MML, MTA

<u>Person</u>	<u>Key Functions</u>
<u>Rolly Olney II</u>	Account Manager on Site
<u>Al Weber</u>	Overseeing Everything
<u>Eric Carlin</u>	Project Manager
<u>Bill Pitsch</u>	Project Manager

Communication and Coordination with Township Departments

ETNA understands the importance of clear communication with the Township so the project can be executed smoothly. PMI has a portal that will be used for day-to-day communication to ensure everyone is comfortable with the process. Meetings and phone calls will be utilized as well to keep everyone up to date and moving in a positive direction.

Plan for Public Information on Public Access

Prioritizing the customer is critical to a successful endeavor. Therefore, many different forms of communication are used and every effort is given to keep the customer informed and engaged with the project proceedings. Posting on the Township website and sending out multiple mailers are key parts of contacting the customer.

Proposed Sequencing of Work Schedule

Project Schedule

In ETNA's past experience the typical timeline for a deployment is between 3 – 6 months. This timeframe is dependent upon all material being onsite, and a concise customer target list defined. Timeline considerations will be modified to accommodate monthly billing / read events.

1. Offsite Server and Software installation - 3 days
2. Solution Integration Kickoff Meeting – 4 hrs.
3. Data Collector installation, configuration, and certification - 5 days
4. Meter Installation Kickoff Meeting – 4 hrs.
5. Meter Installation Begins - TBD
6. Interface Testing and validation - TBD
7. Go-Live and Training – 2 days
8. Meter installation complete – TBD
9. Project Closeout – 2 day.

Plan for Notification and Scheduling of Customer Appointments

Prioritizing the customer is critical to a successful endeavor. Therefore, many different forms of communication are used and every effort is given to keep the customer informed and engaged with the project proceedings. Posting on the Township website and sending out multiple mailers are key parts of contacting the customer. The mailers will have multiple degrees of urgency in order to get the customer to comply with the requests necessary for the project. In addition, there will be an 800 number for the customers to call with any questions or concerns.

Plan for Water Shutoff Process if Access is not Granted

"Inaccessible" or "Non Installable" Meter Installations

- Over the duration of the project, some service locations may be turned back to the Utility for repair if the meter service is deemed "inaccessible" or "non installable". If the repair is made by the Utility prior to substantial completion of the targeted services, PMI will return and install the new meter using normal installation techniques.
- "Inaccessible" or "non installable" is generally defined as a meter service location that is in a condition that prevents the removal of the existing meter and installation of a new meter using reasonable installation techniques. Conditions that may cause a meter to be classified as "inaccessible or non installable" include:

Water

- No operable valve(s) to allow the isolation of the meter.
- Locations where the meter flange or coupling is located of the meter pit or is cased in concrete making it inaccessible.
- Locations that cannot be reached and require that the lid ring and/or meter vault be removed to facilitate access.
- Locations with nonstandard lay length or nonstandard connections requiring the meter setting be re-plumbed or a new spool installed in order to accommodate the new meter.

Utility Required Assistance:

- Assistance, if needed, to shutoff water to a specific service address in the event a line break does occur during water meter replacement activities.
- Repair of old or leaking water service pipe that may have occurred prior to or during meter change-out activities but is not a result of negligence on the part of the installer. Likely causes for this are deteriorated piping or pre-existing damage to the service line or fittings.
- Repair of inaccessible or unsafe meter services.
- Uploading installation data to the Utility's billing system. PMI will collect and properly format the data such that it is suitable for automated upload into the billing system.
- Manual reading of meters until such time that a given route is fully installed and deemed operable.

Tracking Meters, MIUs, and Installation Progress

Base station installation

Advanced Electric Solutions will install and commission the Base station in accordance with Sensus metering configuration requirements and recommendations.

Meter Change out and electronic data transfer into billing software

PMI utilizes its in house proprietary Installation and Tracking System to manage and track a meter change-out program. PMI assigns a dedicated project web portal for the project. This portal allows project personnel (Township, ETNA, and PMI) access to a wide variety of project tracking statistics.

- Meter Installation
- Original Site Data & Pictures (Before the install)
- Completed Site Data & Pictures (After the install)
- Problem Logs Inventory management and tracking
- Progress reports

The Web Portal will serve as a central repository for all installation data collected during a meter change out program. PMI utilizes this same information via field deployed handhelds, which serve as the data collector. The equipment is equipped with a barcode scanner, GPS, Camera, and Software which electronically activates the new meter endpoints. This ensures manual data entry is limited removing the errors which can occur with manual data entry (transposing of meter and endpoint serial numbers, out readings of the old meter, old serial number, and GPS Coordinates).

- The Project Web Portal can also be customized to fit each projects scope and needs. A wide variety of reports can be generated daily for Project Manager's within the Township.
- All meter change out projects are subjected to a rigorous series of quality control algorithms.
- This includes comparing factory data to install data, old meter id check, and old meter read review.
- Any identified anomalies are reconciled prior to sending the installation record for upload to the Township billing system.
- In addition, installations are audited for quality, and individual installer performance is closely monitored.
- PMI will build an interface to be used for the electronic transfer of the meter change out data into billing, eliminating the need for manual entry within the Township's billing software.

Interface Management Plan.

An interface management plan formalizes and documents an agreement between the Sensus Operations Team and the Billing Interface team. Interface Management Objectives, guarantee the proper functioning of data dependencies and sharing of data between both systems.

- Identification of Billing to AMI and AMI to Billing data sharing
- Assignment of responsibility and authority for interface management in both solutions
- Specification and information exchange, which will identify the interface requirements including scope, design, development, installation, integration, testing and commissioning of the system.
- Establishment of development schedules and resources required. Document and plan project milestones.

System Implementation and Testing

The ETNA Project Management team supervises a historical success of standardized project management methodology that provides for managing quality, costs, schedules, cross-project dependencies, risks, change control, communication, stakeholder expectations, and documentation. To better describe the project management processes we have defined four distinct project management groups.

Group 1. Project Initiation

Define initial scope. Clearly defining the project will ensure that objectives are realistic and help to prevent surprises.

Group 2. Project Planning

Capturing and associating tasks to complete the scope of the project. The *Project Management Plan* will become the primary source to measure, execute and control deliverables. Collecting requirements of key objectives which will define every process within the scope of the project.

Group 3. Project Execution / Monitoring & Control

Within the Project Management plan, the execution will be managed and timelines given to complete each step within the *Project Management Plan*. As major milestones of the *Project Management Plan* are executed, testing, and validation will be used to monitor, control and verify the objectives were met.

Group 4. Go-Live & Project Closeout

ETNA partners with skilled Sensus Training and Strategic partners, to ensure that Township personnel completely understand the solution and utilizes all the benefits the solution can provide. ETNA closely monitors Go-Live success by ensuring the solution runs in operation for a few weeks. Following this time period, *Post-Implementation Review* will be held to be certain the expectations were met by the customer and the solution is performing acceptably.

3 – AMI System Capabilities and Equipment

Meter Interface Unit Connected to an Encoder Register

Most encoder meters are compatible with ETNA's system.

Type of Network Topologies

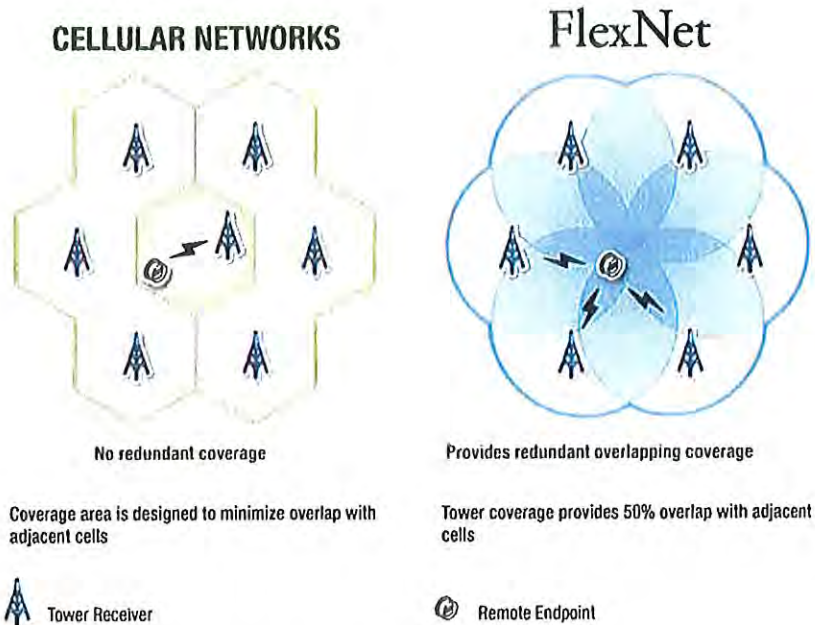
All Paths Always (APA) Standard – Overlapping Coverage

The FlexNet network has no inherent single points of failure. As designed, the system is expected to provide redundant communications paths for greater than 98.5% of all meters. Unlike all other systems on the market today, the FlexNet System requires no reconfiguration or rerouting. FlexNet uses the APA

technology (All Paths Always) standard. This means every FlexNet Base Station always listens for every Smart

Point transmission. In parallel, all paths are used at all times simultaneously.

The FlexNet network is designed to provide an overlap of meter coverage with neighboring FlexNet Base Stations. Since base stations have a greater outbound reach, the surrounding base stations automatically reach over to the neighboring pool of meters to overcome the temporary loss of a base station, or a failed communications line to a base station. The following figure shows the redundant overlapping coverage for a typical FlexNet Base Station layout versus a cellular network. Cellular coverage area is designed to minimize overlap with adjacent cells, whereas FlexNet Base Station coverage intentionally overlaps adjacent cells, creating significant signal redundancy. Contrastingly, mesh uses a less reliable philosophy of serial communications and serial path. Unlike systems that require deterministic routing knowledge, the FlexNet system retains all routing knowledge in the FlexNet Head End System in multiple locations. This purposeful design to maintain the network routing information provides the most robust network available. Any communication device that receives a transmission from a FlexNet device relays it directly to the head end system through one or more FlexNet Base Stations or by requesting assistance from a nearby meter or meters. Each FlexNet Base Station receives the message from an endpoint and in turn relays the message to the head end system where duplicate messages are resolved. Meters push multiple transmissions to the FlexNet Head End System daily. If a packet is missed, the next packet contains the same historical data packet with historical reads so that the database contains all desired reads through redundant transmissions and redundant historical reads.



Meter Reading Database

Head End Collection of Meter Data / Head End to Meter Communication

Hourly reads are stored in the meter registers until the meter is scheduled to transmit meter reading data to the Head End System. The FlexNet system does not rely on polling of meters to collect data, but uses supervisory messages that are sent autonomously by FlexNet-enabled meters at various points throughout the day. Supervisory messages are messages that are pushed autonomously by meters based on pre-programmed attributes in the communications Smart Point. These messages are sent randomly to minimize collisions, but generally occur every 15 minutes to 12 hours depending upon the type of information and latency requirements. The transmit rate is set at the factory during manufacture and can be updated over the air as required. These reconfigurations are normally completed by the FlexNet network optimizer and can be adjusted manually over the air by a user for specific purposes (e.g., load survey). Since the FlexNet supervisory message structure provides redundancy in every message, data is consistently received by the FlexNet Head End System. If the meter is not communicating, the automated backfill engine attempts to retrieve the missing data once the meter re-establishes communication with the system. If this is not possible, then the data can be extracted locally using a handheld device and FlexNet utility software. The head end system has the capability to analyze the reads. If gaps in reads are found, the head end system will request missing reads from the endpoint. The FlexNet Head End System has the capability to analyze electric meter readings. If gaps in readings are found, the head end system will request the missing readings from the endpoint. Sensus uses the following two techniques to collect data for missing intervals: Interval data transmissions include both the current interval and recent historic intervals. The repetition of interval data transmission serves to fill in most gaps that occur. Additionally, the head end system automatically polls the meter and retrieves the missing reads. Sensus can retrieve up to 60 days or the history depth of the meter of missing reads using this method.

Process for Meter Reading Data Integration with the BS&A Software

BS&A currently has this integration completed.

Compatibility with the Township's Current Systems

ETNA is only compatible with the billing systems the Township currently has in place.

Interface Management Plan.

An interface management plan formalizes and documents an agreement between the Sensus Operations Team and the Billing Interface team. Interface Management Objectives, guarantee the proper functioning of data dependencies and sharing of data between both systems.

- Identification of Billing to AMI and AMI to Billing data sharing
- Assignment of responsibility and authority for interface management in both solutions
- Specification and information exchange, which will identify the interface requirements including scope, design, development, installation, integration, testing and commissioning of the system.
- Establishment of development schedules and resources required. Document and plan project milestones.

Hardware Requirements and Specifications for Products

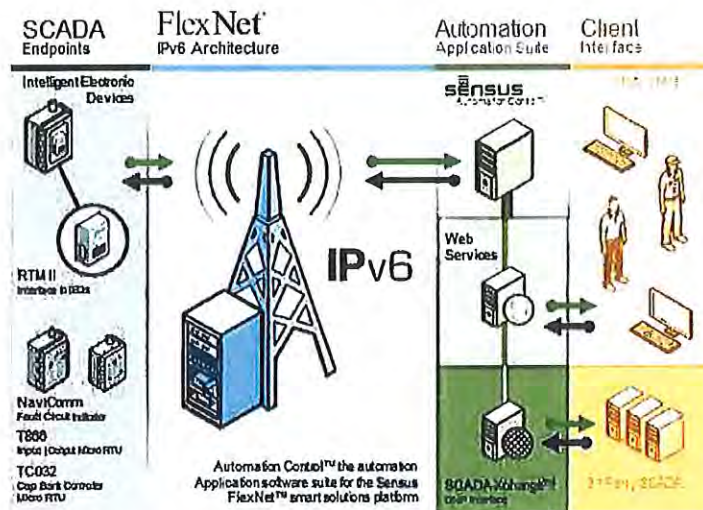
Sensus DA and SCADA Automation Solutions Overview

Sensus DA solutions are comprised of three main elements: intelligent communications/automation devices, a reliable low-latency FlexNet network communications backbone, and SCADA-DA device management tools. The SCADA-DA device management tools include Automation Control™ and the SCADA-Xchange™ software suite for field device control, network management, and easy third-party SCADA integration. Collectively, these elements provide a powerful solution for real-time monitoring and control of utility distribution assets, users, and communications.

The Sensus DA system is built on open standard systems and protocols such as IP-based communication and DNP 3.0 SCADA interfaces. Additionally, Sensus DA SCADA-Xchange provides a powerful, open-standards based interface that supports all popular SCADA system suppliers. From substation to meter, Sensus Distribution Automation technology integrates seamlessly with existing distribution systems ensuring reliable and real-time, two-way communication. It works with legacy systems, industry standard network protocols, and both old and new technologies to facilitate true end-to-end system interoperability.

Sensus intelligent DA field devices, enabled with FlexNet Smart Point™ modules, communicate with a complete line of intelligent communication devices, including reclosers, capacitor controls, switch controls, faulted circuit indicators, voltage regulators, and breakers. Utilizing the capabilities of Automation Control, every field device provides engineers, planners, and troubleshooters with easy access to a large set of information. Sensus DA solutions help utilities make the most of their distribution assets – enhancing system reliability for reduced outage times, optimizing grid efficiency, and reducing costs. Sensus Distribution Automation delivers cost-effective wireless communication and control solutions for a wide range of DA-enhancing power delivery reliability and efficiency applications. Examples of these applications include the following:

- Recloser controller communications to enable better voltage optimization
- Capacitor bank controllers to improve distribution grid efficiency
- Automated line switches to improve distribution reliability
- Industrial and commercial load management
- Substation automation
- Fault circuit indicators (FCIs) and current sensor monitoring for improved outage and restoration management
- Line voltage monitoring to improve reliability monitoring and outage reporting
- Power reliability monitoring



Field-proven Sensus Distribution Automation solutions provide electric utilities with secure, robust, and advanced end-to-end solutions for remote monitoring and control of distribution systems and assets.

Vantage Point Lighting Solution overview and features

The Vantage Point Lighting Solution is one component of the Vantage Point platform. It consists of a Vantage Point Lighting Control module and the associated Vantage Point Lighting software. The Vantage Point Lighting Solution:

- Leverages the Sensus FlexNet communication network
- Monitors and controls street and area lights
- Includes a feature-rich and intuitive user interface
- Enables recurring energy and maintenance savings
- Enhances public safety through light control

Key features

Features of the Vantage Point Lighting Solution include the following:

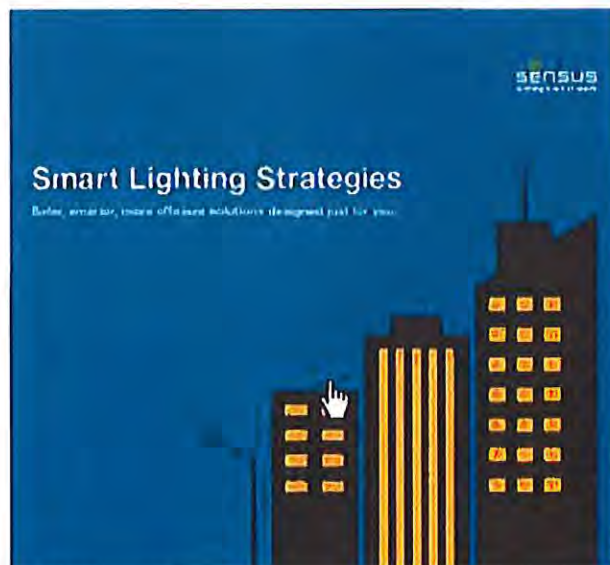
- Real-time monitoring and alarming, and intelligent dispatch
- Sunrise/sunset management and savings – no photocells
- Dimming control energy savings
- Grouping and flashing safety control
- GIS mapping
- Chase lights safety control – event flashing
- Disconnect for slow- or no-pay
- Integrated metrology compliant with the ANSI C12.20 0.5 accuracy class
- Point-to-multipoint network supports several applications and strategic deployment

A key benefit of the FlexNet Head End System for Vantage Point is the ability to leverage the standard Smart Grid database structure to capture the actual energy consumption of each fixture, and to render that consumption in an industry standard CMEP file for direct VEE operation and billing. This feature is only possible in a head end system that supports multiple Smart Grid applications, especially one that supports electric AMI solutions.

Thus, Vantage Point benefits from a common Smart Grid head end system database structure that supports multiple applications, and can repurpose common database structures and network encryption across the various applications.

Municipal Lighting: The Problem – Streetlight Maintenance

The vast majority of streetlights use older, inefficient lighting technologies such as Low Pressure Sodium (LPS), High Pressure Sodium (HPS), Mercury Vapor (MV), or Metal Halide (MH). These technologies create light in a range of 'colors', as defined by light temperature in degrees Kelvin, and lumen output.



These light types require internal electrodes in the lamps to initiate and sustain the light. The electrodes age and eventually burn out, causing a dimming and change in light output and resulting in short lamp/ballast life. HPS and LPS are particularly prone to producing a yellowish glow, which distorts color and contrast of the lit areas. Lack of necessary light levels and color distortion due to color temperature makes it more difficult for public safety officials to identify and discern risks. For example, viGHBLP.I descriptions of the actual color of clothing or cars are often inaccurate, and descriptions lack detail since light levels are insufficient.

On/off control of streetlights is provided by photocells, which are problematic in their short life and lack of accuracy in how well they measure ambient light levels. To compensate for photocell variation, the sensitivity of photocells is often compensated so that lights conservatively will be turned on earlier in the evening than necessary, and turned off later in the morning than necessary, resulting in additional

See your lights from a new VantagePoint.

Is your campus smart about outdoor lighting?


Do you provide the right amount of light for different parts of the campus?


Can you control your lights for safety and campus events?


Can you measure and control your maintenance spending?

Smart lighting is

“on time” of as much as 1 hour per day. Photocells themselves have high maintenance and replacement requirements since their life expectancy is directly related to the life of the switching relay used. These relays are often rated for a certain number of contact closures, with two relay switches per 24-hour period being the norm. Often, a photocell will “oscillate,” causing as many as 100 on/off relay closures during the night. Oscillating photocells further reduce the life expectancy of the relay by premature aging of the contacts. Additionally, a failed streetlight will often appear as a “day burner,” when the light relay fails in the closed position and the light

burns continuously.

Water Endpoint Radio

The FlexNet SmartPoint M2 is a radio transceiver that provides water utilities inbound and outbound access to water measurement and ancillary device diagnostics via radio signal. The SmartPoint 510M is designed for either inside or outside sets. With its migratable, two-way communication ability, the M-Series SmartPoint functions as a walk-by/drive-by endpoint, fixed base endpoint, or combination of the two. This flexibility increases utility data collection capabilities and streamlines operations.



Patented TouchCoupler design

The SmartPoint M2 utilizes TouchCoupler, the patented Sensus inductive coupling communication platform to interface with the encoded meter. With TouchCoupler, the SmartPoint M2 can connect to the meter using existing two wire AMR installations

instead of requiring utilities to access the meter to install a new three wire connection. This results in a fast, efficient and reliable connection at minimal cost. A wired model is also available.

Powerful transmission, flexible platform

The SmartPoint M2 offers several advantages that control both deployment and lifetime operation costs. It's powerful, industry leading two-watt transmitter broadcasts over large distances and minimizes collection infrastructure. And once the SmartPoint M2 is installed, its migratable, two-way system platform can be updated without requiring personnel to visit each meter and/or inconveniencing customers.

Residential Positive Displacement Water Meter

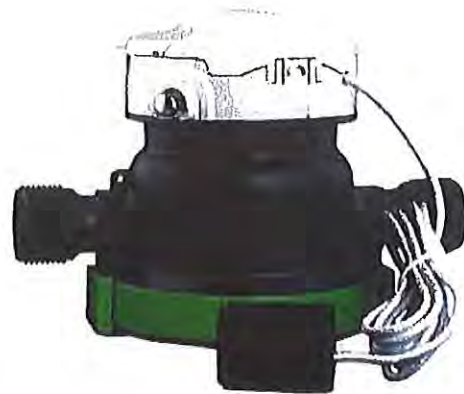
Sensus accuSTREAM water meters meet the requirements of NSF/ANSI Standard 61 Annex F and G and comply with AWWA Standard C710 latest revision. Each meter is tested to insure compliance with AWWA standards.

Construction

Sensus accuSTREAM water meters consist of three basic components: maincase; measuring chamber; and sealed register. Maincases (including bottom plate) are made of composite material with externally threaded spuds. Registers are housed in a bonnet of synthetic polymer. Measuring chambers are of Rocksyn[®], a corrosion-resistant, tailored thermoplastic material formulated for long-term performance and especially suitable for aggressive water conditions. The accuSTREAM can be installed horizontal.

Sealed register

Hermetically sealed; proven magnetic drive design eliminates dirt and moisture contamination, tampering and lens fogging problems. Standard register includes a straight-reading, odometer-type totalization display; a 360° test





510M/520M SmartPoint® Module

Water Meter and Ancillaries Compatibility Quick Guide

Sensus

Register Type	Model	Meter Type
ICE & ICE Opto	All meters that accept ICE & ICE Opto 3-wire.	Positive Displacement, Multi-jet, Compound, Turbine, Propeller, Fire Service
OMNI™	T2, C2, F2, R2	Floating Ball Technology
accuMAG™	accuMAG	Mag
iPERL®	iPERL	Mag
Permalog	Permalog+	Acoustic Technology
Sensus® Electronic Register+™ and E-Register	accuSTREAM, SR II	Positive Displacement
ally	ally	ally
Hydroverse	Hydroverse	Mag

Badger

Register Type	Model	Meter Type
ADE	All meters that accept ADE 3-wire and TouchCoupler support, Sensus Approved TR/PL lead, up to 8 wheels.	Disc, Turbine, Compound, Fire Service
HR-E LCD	All meters that accept HR-E LCD 3-wire, up to 8 wheels. Must be at least SmartPoint firmware version R1.2.1f or higher.	Disc, Turbo Series, Compound Series, Combo Series, Fire Service
E-SERIES 8 digits	All models with firmware version 1.36, 3-wire**	Ultrasonic

Neptune

Register Type	Model	Meter Type
Proread 4 wheel	All meters that accept Proread registers. 3-wire support	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 4 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
Proread 6 wheel	All meters that accept Proread registers. 3-wire support	Positive Displacement, Turbine, Compound, Fire Service
E-coder 6 wheel	All meters that accept E-coder registers. 3-wire support (Proread protocol only)	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 6 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
E-coder 8 wheel	All meters that accept E-coder registers. 3-wire support*	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 8 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
ProCoder 8 wheel	All meters with firmware version 63.16. Manufactured after 7/2018. TouchCoupler and 3-wire**	Positive Displacement, Turbine, Compound, Fire Service

*SmartPoint firmware version 1.2 and above only

**SmartPoint firmware version 1.7 and above only



Elster/Amco

Register Type	Model	Meter Type
Scancoder	All meters that accept Scancoder 3-wire support (Sensus protocol only).	Positive Displacement, Turbine, Multi-jet, Bulk combo, Fire service
InVision	All meters that accept InVision 3-wire support (Sensus protocol only).	Positive Displacement, Turbine, Multi-jet, Bulk combo, Fire service

Master Meter

Register Type	Model	Meter Type
AccuLinx V1.19	All meters that accept AccuLinx 3-wire and TouchCoupler, Sensus approved TR/PL lead.	Positive Displacement
Sonata 8 digits	3-wire and TouchCoupler, firmware version 5.01 or greater.**	Ultrasonic
Octave 8 digits	3-wire only.**	Ultrasonic

McCrometer

Register Type	Model	Meter Type
McCrometer flowcom FC100-00M 8 digits	3-wire reading. Firmware 2.4. Manufactured after 4/2015.	Propeller
ML255 battery powered register 8 digits	3-wire reading only. Firmware 5.09 or greater.**	Propeller
ML Series converter, AC powered 8 digits	3-wire reading only. Firmware 3.03 or greater.**	Propeller

Kamstrup

Register Type	Model	Meter Type
flowIQ 2100 4, 6 and 8 wheel	3-wire reading. Version C1.	Ultrasonic
flowIQ 2100 4, 6, and 8 wheel	3-wire and TouchCoupler version H1.**	Ultrasonic

Diehl

Register Type	Model	Meter Type
Hydrus 8 digits	3-wire support only.** Manufactured after 4/2018.	Ultrasonic

Zenner

Register Type	Model	Meter Type
PMN Nitro 01 4 wheel, 6 wheel	3-wire support only. Manufactured after 8/2015.	Multi-jet

Hersey/Mueller Systems

Register Type	Model	Meter Type
Translator	All meters that accept Translator 3-wire and TouchCoupler support, Sensus approved TR/PL lead.	Positive Displacement, Mag

*SmartPoint firmware version 1.2 and above only

**SmartPoint firmware version 1.7 and above only



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circle with center sweep hand; and a low flow (leak) detector. Gears are self-lubricating, molded plastic for long life

and minimum friction. No change gears are required for accuracy calibration. An electronic encoded register is available for all accuSTREAM meters. The LCD identifies the AMR digit (with a bar above the digit). Rate of flow is viewable by closing and opening the lid. The display will remain on for 30 seconds then will turn off. close and re-open the lid to view the display.

Tamperproof features

A unique locking system prevents customer removal of the register to obtain free water. A special tool, available only to water utilities, is required to remove the register assembly.

Magnetic drive

The accuSTREAM features a hydrodynamically cushioned design that eliminates premature wear of components. The meter utilizes a patented positive, reliable drive coupling. The high-strength magnets used will eliminate "drive slip" in normal use and also provide adequate strength to drive remote register units.

Operation

Water flows through the meter's strainer and into the measuring chamber where it drives the piston. The hydrodynamically balanced piston oscillates around a central hub, guided by the division plate. A drive magnet transmits the motion of the piston to a sensor located within the hermetically sealed register. The sensor is connected to the integrated circuit design that encodes the rotations of the measuring chamber. It reduces the piston oscillations into volume totalization units displayed on the register face.

Maintenance

Sensus accuSTREAM water meters are engineered to provide long-term value and virtually maintenance-free operation. Simplicity of components allows interchangeability of parts of like-size meters, reduced parts inventory requirements, and ease of maintenance. The register can be removed without relieving the water pressure or removing the maincase from the installation.

Commercial and Industrial Water Meter

The OMNI meter meets and far exceeds the most recent revision of AWWA Standard C701 class II standards. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ANSI Standard 61, Annex F and G approved.

Performance

The patented measurement principles of the OMNI meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The OMNI meter has no restrictions as to sustained flow rates within its continuous operating range. The floating ball measurement technology allows for flows up to its rated maximum capacity without affecting undue wear or accuracy degradation when installed in any orientation.

Construction

The OMNI meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all-electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating.

Request for Proposal



Maincase features are; easily removable measuring chamber, unique chamber seal to the maincase using a high-pressure o-ring, testing port and a convenient integral strainer.

Omni Electronic Register

The OMNI electronic register consists of a hermetically sealed register with an electronic pickup containing no mechanical gearing. The large character LCD displays AMR, Totalization and a Resettable Test Totalizer. OMNI register features; AMR resolution units that are fully programmable, Pulse output frequency that are fully programmable, Integral customer data logging capability, Integral resettable accuracy testing feature compatible with the UniPro Testing Assistant Program, Large, easy-to-read LCD also displays both forward and reverse flow directions and all with a 10-year battery life guarantee.

Magnetic Drive

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra-sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.



Measuring Element

The revolutionary thermoplastic, hydro dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI meter.

Strainer

The OMNI with the "V" shaped integral strainer using a stainless-steel screen along with Floating Ball Technology (FBT) create a design that gives far improved accuracy even in those once thought questionable settings. A removable strainer cover permits easy access to the screen for routine maintenance.

Maintenance

The OMNI meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and / or strainer cover can be removed independently. Parts and or a replacement measuring chamber may be utilized in the event repairs are needed.

Billing Capabilities and Additional Data Capabilities

Sensus Analytics & MDM

The investment in AMI should not require that one of the largest capital investments be the Meter Data Management system. Sensus has embraced this concept using state of the art technology to move past many of the previous MDM designs to make a dynamic and flexible meter data management system for

a fraction of what many other systems cost. This brief explains the concepts and advantages that the Sensus Analytics application, with built in MDM features and billing access, provides.

By utilizing a Software as a Service (SaaS) environment the utility can capitalize on the economy of scale by aggregating many users into one computing center. These centers employ the best and most technical employees to manage the security, software updates, preventive maintenance, and operating conditions for all of the data center's components. Utility customers can rest assured that the computing systems are being managed by companies in which the operation and management of the utility's data is the primary business. If special considerations are required, these businesses can make customizations without minimizing the value received by utilizing the SaaS environment.

Key Business Decisions

Utility operators must understand the key decisions that must be made regarding the MDM, Billing Access, and Analytics decision. These decisions will impact the performance and costs for the utility for many years once a decision has been made. Impacts on Capital Expenditures, Operating Expenses, and licensing will be ongoing for the utility.

- Software as a Service – The advantages of a SaaS solution are far reaching and lasting. Some of the beneficial items to consider are as follows.
 - Economy of Scale – pay for only what you use
 - Contractual Performance
 - State of the Art Technology
 - Subscribing to and using the latest version of software available
 - Accelerating time to market with technologies
 - Securing data – both physically and electronically
 - Predictable costs for budgetary planning
 - Reduction in costs (IT and Operational), risks (system configuration and disaster recovery), and environmental impact (lower carbon footprint)
- Database Platform- Ongoing costs must be considered for different products. Sensus has embraced some of the most economical database solutions for big data on the market currently.
 - Open Source Database Solutions with no Annual Licensing Fees
 - No Maintenance Contracts for Databases
 - No Support Contracts for Databases
 - Long term online data retention without performance degradation
- AMI System Deployment – The period of time during the deployment must be considered for a number of items and the financial and deployment plan should be fully understood for the best outcome. Items to consider should be:
 - Deployment Tools – Monitoring Installation Progress
 - Integration Activities – Just in Time Deployment

- Business Functionality – Planned from the beginning for seamless customer impacts
- Continuous Advancement of all desired AMI features
- Billing Access – The ability to export meter reading data to the billing system or Customer Information System (CIS) is a hard and firm requirement that must be understood from a business continuity perspective. Some of the items that must be considered when choosing a new system include:
 - Acquire and Store Billing Determinants – at a high level, this consists of the ability to receive meter interval and register data from the data collection system(s), store it in a meter data warehouse for extraction to a billing system.
 - Billing File Creation - Sensus has developed a data mapping solution to make this transition as easy as possible and even allows conversions to other CIS systems just as easy.
 - Reading System Agnostic / Hybrid Ready - The system also must accept readings from other AMI head end systems and reading methods such as walk-by or drive-by until the system is fully deployed.
- Asset Management Integration Capabilities– During the life of the AMI system it is imperative to integrate the ability to support the management of the utilities assets as they are deployed, upgraded, maintained and replaced. Further integration with the utilities Work Order Management system will provide further benefits.
- Work Order Management Integration Capabilities– the AMI system can report on items that require field support for the utility. These notifications can be integrated into the Work Order Management system to systematically generate and schedule required activities.
- Service Connection Management – With the advent of future AMI capabilities to connect and disconnect and reduce capacity of water services the business processes and CIS applications will provide increased efficiency in working with connection management.
- Event Management – the value of an AMI system is the current status and event management that can be observed and resolved with the data from the system.
 - Tamper Management – Better revenue assurance and theft protection is provided and the ability to collect and monitor for tamper alarms is essential.
 - AMI system operational events – The AMI system uses other collection technologies to provide insight into distribution parameters and collects several event-based diagnostic flags providing warning of potential issues. The Sensus solution can collect, store, and forward the events as well as apply analysis to the events and develop field service orders for reporting or submission to a Work Order Management System.
- Consumer Portal – The Sensus Consumer Portal utilizes the same data for presentment to the customer on the internet as what is available to the utility. There are configurations allowed for the utility not present all information, but items like consumption since last reading, leak alarms, watering schedules are made available. Features to consider in a tool:
 - Interval data at the hourly, daily, monthly and seasonal profiles as well as costs
 - Comparisons from past billing period to the current billing period

- Multiple notification methodologies smart phone, email and web that may alert consumers to conditions like leaks, budgeting targets or irrigation schedules.
- Behavior modification tools that encourage continued participation in meeting utilities goals as well as personal use.

Sensus Analytics with included MDM capability

In addition to Sensus' core analytics capabilities, the company has recently enhanced its data analytics portfolio by building a Smart Grid analytics company offering big data solutions for electric, water, and gas utilities. Utilities gathering data from smart sensors, including meters and external sources such as weather reports, will now be better able to use the information for actionable intelligence that saves time and money.

Specific analytic applications in the Sensus Analytics (SA) portfolio include transformer utilization, load aggregation, water loss analysis, water leak analysis, alert management, and alarm dashboard. The Sensus Analytics suite of products, services, and applications enables utilities to aggregate data from smart meters, SCADA systems, customer billing software, and a myriad of other sources.

All of the applications are hosted in a secure cloud by Sensus Analytics platform. This cloud-based management requires a lower upfront capital investment, offers a reduced cost of ownership, and enables the utility to take advantage of new software functionality more quickly and easily. Utilities can maximize the value of their investment in communication networks and advanced network applications through data analytics that improve operations, reduce cost, and enhance customer service.

A list of available applications includes:

- *Billing Access.* Manages the billing file creation for each route, enabling review and approval of the files before posting to the CIS.
- *Billing Adapter.* Provides customized formatting and creation of billing files for the utility's CIS system.
- *Device Access.* Enables utility personnel, such as a CSR, to analyze a meter's usage and event history. This provides detailed access to data when working with end customers to understand billing issues. Creates alerts for a specific meter to be sent via SMS or email to system users in the event of meter or network events.
- *Alert Manager.* Configures alerts to be sent to utility personnel or groups via SMS or email when events are reported by the meters and network. Examples include broken pipe alarms, cut wire alarms, backflow alarms, and leak alarms.
- *Alarm Dashboard.* Provides a view for system alerts from meters and network-enabling trending and action in one location (on the same webpage).
- *Meter Insight.* Dashboard and Drill through identifying meters that are Active, Orphaned, Inactive, State, Almost Stale, and No Read Available.
- *Unbilled Consumption.* Shows a dashboard for each billing cycle of the consumed commodity to date since the last billing cycle. Gives the financial team a daily view into the revenue for each cycle.

- *Transformer Loading.* Analyzes the usage of transformers and identifies the transformers that are over or under-utilized. Proactively changes transformers and better uses capital dollars by right sizing equipment
- *Energy Insight.* Analyzes the demand on the system by feeder and substation using a bottom-up approach that aggregates the reported usage of the meters. This module is used to identify line loss and better balance the system loading for peaks.
- *Voltage Insight.* Provides vertical integration from the endpoint to data analytics applications, which greatly increases speed-to-market and realization of benefits for the utility.
- *Water Loss Analysis.* Analyzes each water zone, netting the metered inflow against outflow to evaluate water loss in the system.
- *Master Route Reading Report.* Provides the end of cycle view of reading for a route or routes that can be used to evaluate the quality of data before processing the billing file.
- *Hi/Low Exception Report.* Identifies the meters that have exceeded their high or low threshold for the reporting period and need to be investigated before the billing is approved.
- *Negative Consumption Report.* Shows meters with negative consumption for investigation by highlighting the specific occurrences in the past 24 hours, 48 hours, and 72 hours.
- *Duplicate Meters Report.* Identifies potential data quality problems and real procedural issues where Smart Point radio changes were not done properly.
- *Swapped Meter Report.* Shows the meters for a specific time period in which the swapped meter alarm was triggered when the meter number changed without first reactivating the radio with the new meter attached.
- *Alarm Count Report.* Reports alarm occurrences during a specific window of time. Counts the number of alarms that have occurred for each meter for each alarm type. It creates a single report which shows the meter and alarm if the occurrences of the alarm for the meter exceed the threshold during the time frame.
- *Water Leak Report.* Reports water leak information for meters, including the leak alarm first reported date, leak count reported in last eight hours, leaks in last 24 hours, leaks in last 72 hours, leaks in last 30 days, leaks in last 60 days, and leaks in last 90 days.

FCC Licensing Requirements

FlexNet Primary-Use FCC-Licensed Spectrum

Like AT&T, Sprint, Verizon, and other mission critical data communications networks, FlexNet uses a primary-use FCC-licensed spectrum. The Sensus FlexNet AMI Network boasts five key range and performance criteria:

- Use of existing communications towers and efficient high-gain antennas
- Acquisition of clear nationwide primary-use licensed radio spectrum with a low noise floor

- Design and use high power Smart Point endpoints (2 watts) with state-of-the-art, all digital modulation techniques
- Design and use highly sensitive (-120 dBm to -130 dBm) all Digital Signal Processor (DSP)-based transceivers (FlexNet Base Station) for the AMI Communications Network
- Use of meter-to-meter mPass relay mode for hard to reach meters

A key to achieving high quality performance from city to city required the acquisition of FCC primary-use radio spectrum for the best and most reliable network operation. To that end, Sensus obtained nationwide and local licenses. This spectrum is 100 percent primary use, meaning the FCC-licensed network has primary rights to the spectrum, with no other entities allowed to use the channel without permission from the licensee. Additionally, interference is regulated and prohibited by the FCC. Unlicensed 900 MHz Industrial, Scientific, and Medical (ISM) band competitors now have to compete with Progeny. Progeny was granted a primary-use MLS license in its operating band.

Another advantage to the licensed frequency band is that the limits for total RF output power are higher than those for systems using the unlicensed ISM band. The ISM band is typically limited from 100 milliwatts to 1 watt. FCC-licensed spectrum operates at higher power levels, and power translates directly into range in a radio system, with one base station capable of covering tens of thousands of meters. This, among other advantages, means that system costs can be amortized over many more devices than is typical for conventional fixed-based mesh networks.

Battery Requirements

Base Station Power Supply and Batteries

FlexNet Base Station power supply voltage requirements are model dependent.

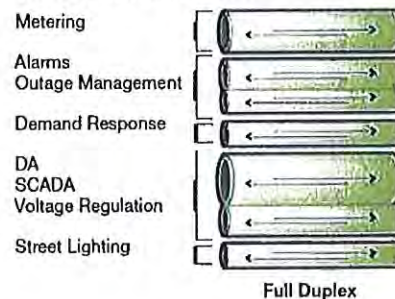
The M400 base station has 2 EnerSys XE40 batteries. These batteries are connected in series to provide the 24 volts of DC backup power for the transceiver. The M400 uses a Lineage/GE telecom-style redundant power supply.

The M400B requires a 120 VAC power supply. Consumption requirements vary with the number of transceivers and operating conditions.

Under normal operating conditions the M400B base station consumes 38W at idle and 50W at a transmit duty cycle of 17%. KWh per day is 0.912 for idle, and 1.2 for transmit as noted.

Licensed Frequency Point to Multipoint

Multiple Prioritized Channels



Unlicensed Frequency Mesh

One Shared Channel

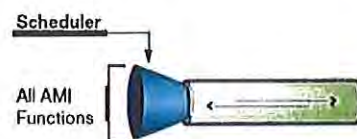


Figure 2 – FlexNet Prioritization vs. Mesh

Battery run time is typically 20 hours idle and 8 hours at 17% transmission. These calculated values have been exceeded in real world field conditions multiple times as the FlexNet Base Station transceiver is seldom in a 17% transmit mode.

The base station batteries, when new, provide approximately 20 hours of backup power when the transceiver is idle or in receive-only mode, and at least 8 to 10 hours of backup power when the transceiver is transmitting at a 17% duty cycle, after which time it performs an orderly shutdown.

Warranties of Equipment

Sensus G-500 Warranty Document

Sensus Limited Warranty

G-500 R23

1. General Product Coverage. Unless otherwise provided herein, Sensus USA Inc. ("Sensus") warrants its products and parts to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment and as set forth below. All products are sold to customer ("Customer") pursuant to Sensus' Terms of Sale, available at sensus.com/TO ("Terms of Sale").

2. SR II® and acoustREAM™ 6/8", 8/8" & 1" Meters are warranted to perform to new meter accuracy level set forth in the SR II and acoustREAM Data Sheets available at sensus.com for five (5) years from the date of Sensus shipment or until the registration shown below, whichever occurs first. Sensus further warrants that the SR II and acoustREAM meters will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first.

	New Meter Accuracy	Repair Meter Accuracy
5/8" SR II Meter and acoustREAM Meter	500,000 gallons	1,500,000 gallons
3/4" SR II Meter and acoustREAM Meter	750,000 gallons	2,250,000 gallons
1" SR II Meter and acoustREAM Meter	1,000,000 gallons	3,000,000 gallons

3. aly® Meters that register water flow are warranted to perform to the accuracy level set forth in the aly Data Sheet available at sensus.com for fifteen (15) years from the Date of Installation, but no longer than sixteen (16) years from date of manufacture, not including the meter's sensors, valve, and gear motor, which are warranted under different terms described below. As used herein, "Date of Installation" means the date after which the aly Meter has been out of empty pipe for seven (7) consecutive days, as those days are measured by the aly Meter and stored in the meter's nonvolatile memory.

4. IPERL® Meters that register water flow are warranted to perform to the accuracy levels set forth in the IPERL Data Sheet available at sensus.com for twenty (20) years from the date of Sensus shipment. The IPERL System Component warranty does not include the external housing.

5. SR II databases are warranted to be free from defects in material and workmanship for twenty-five (25) years from the date of Sensus shipment. acoustREAM databases will be free from defects in material and workmanship for fifteen (15) years from the date of Sensus shipment.

6. Sensus OMNI™ Meters and Propeller Meters are warranted to perform to as set forth in OMNI and Propeller data sheets for one (1) year from the date of Sensus shipment.

7. Sensus acoustIAQ™ and Hydroverse™ Meters are warranted to be free from defects in material and workmanship, under normal use and service, for 18 months from the date of Sensus shipment or 12 months from startup, whichever occurs first.

8. Sensus Registers are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the periods stated below or until the applicable registration for AWWA Repaired Meter Accuracy Standards, as set forth above, are surpassed, whichever occurs first:

5/8" thru 1" SR II, acoustREAM Standard Registers	25 years
5/8" thru 1" SR II, acoustREAM Encoder Registers	10 years
All HSPU, DMP Controller, R.E.R., Elec. ROFI	1 year
Standard and Encoder Registers for Propeller Meters	1 year
OMNI and OMNI+ Registers with Battery	10 years

9. Sensus Electro and Gas Meters are warranted pursuant to the General Limited Warranty available at sensus.com/TO.

10. Batteries, IPERL System Components, AMR and FloxNet® Communication Network AMR Interface Devices are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the period stated below:

Electronic TouchPad	10 years
Act-Pak® Remote Monitoring Instruments	1 year
Gas SmartPoint® Modules and Batteries	20 years ¹
6500 series Hand-Held Device	2 years
Vehicle Gateway Base Station (VGB) and other AMR Equipment	1 year
EasyLink Reader	1 Year
CFTP100	20 Years ²
FloNet Base Station (including the R100NA and M400 products)	1 year
RAM160	1 Year
IPERL System Battery and IPERL System Components	20 years ³

¹ Sensus will repair or replace non-performing Gas SmartPoint Modules (configured to the factory setting of six transmissions per day under normal system operations of up to one demand read per month and up to five firmware downloads during the life of the product) and batteries.

² Sensus will repair or replace non-performing CFTP100 modules (configured at factory setting of four transmissions per day under normal system operations of up to one demand read per month and up to five firmware downloads during the life of the product) and batteries.

Sensus® Electronic Register ⁴	20 years ⁴
Sensus® Smart Gateway Sensor Interface	1 year ⁵
SmartPoint® 510M/520M/515M/512M Modules and Batteries	20 years ⁶

11. aly® Meter Batteries and Components, including SmartPoint 510M/520M Modules are warranted to be free from defects in material and workmanship from the Date of Installation, as defined in Section 3, for the period stated below:

Batteries	15 years ⁷
Sensors	5 years ⁸
Valve & Gear Motor	5 years ⁹
SmartPoint 510M/520M Modules and Batteries in service w/aly	15 years ⁸

⁴ Sensus will repair or replace non-performing

- IPERL System Database, and/or the IPERL System FlowCube, the flow sensing and data processing assemblies, and the register ("IPERL System Components") with hourly reads.
- SmartPoint 510M/520M/515M/512M-P/B Modules (configured to the factory setting of six transmissions per day under normal system operations of up to one demand read to each SmartPoint Module per month and up to five firmware downloads during the life of the product) and batteries, unless the SmartPoint 510M/520M Module is ever paired with an aly Meter, which event immediately reverts the warranty terms to those described in Section 11.

at no cost for the first fifteen (15) years from the date of Sensus shipment, and for the remaining five (5) years at a prorated percentage, applied towards the published list price in effect for the year the product is accepted by Sensus under the warranty conditions according to the following schedule:

Years	Replacement Price
1 – 15	0%
16	30%
17	40%
18	50%
19	60%
20	70%
>20	100%

⁵ Sensus will repair or replace non-performing Sensus Electronic Register⁴ with hourly reads for the first ten (10) years from the date of Sensus shipment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list price in effect for the year the product is accepted by Sensus under warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price
1 – 10	0%	16	85%
11	30%	17	80%
12	35%	18	85%
13	40%	19	70%
14	45%	20	75%
15	50%	>20	100%

⁶ Sensus® Smart Gateway Sensor Interface warranty is valid only for aly Meter Sample Rates of four times per hour with a Standard Transact Rate of hourly or greater for the aly Meter.

⁷ If applicable, any SmartPoint 510M/520M Modules ever paired with an aly Meter are warranted with the following limitations:

- When configured to the default installation setting of six transmissions of metering and pressure per day and one update of temperature per day, the SmartPoint is warranted to perform up to five (5) firmware upgrades for the SmartPoint Module and up to five (5) firmware upgrades for the aly Meter.
- 2500 Operational Commands, where "Operational Commands" includes on demand reads such as consumption, pressure, temperature, set aly valve command, or a configured on command, and
- 15 Diagnostic Commands, which includes two-way communications tests and installations

for the first ten (10) years from Date of Installation at no cost. For the remaining five (5) years, Customer will pay the reduced Replacement Price of the SmartPoint list price in effect at the time the product is accepted for return in accordance with the following schedule:

Years	Replacement Price	Years	Replacement Price
1 – 10	0%	14	85%
11	35%	15	75%
12	45%	>15	100%
13	55%		

⁸ Notwithstanding the foregoing, valve and gear motor components of aly Meters are not warranted beyond two thousand (2000) Valve State Operations, even if the warranty period provided herein has not yet expired. As used herein, "Valve State Operations" means adjustments of the Meter to open, close, or reduce flow.

12. IPERL and City Connectors and Cables are warranted to be free from defects in materials and workmanship, under normal use and service, for ten (10) years from the date of Sensus shipment. Nickel or Iron connectors included with a Sensus product are warranted according to the terms for Third-Party Devices in Section 13.

13. Third-Party Devices are warranted to be free from defects in materials and workmanship, under normal use and service, for one (1) year from the date of Sensus shipment. As used in this Sensus Limited Warranty, "Third-Party Devices" means any product, device, or component part used with a Sensus product that is manufactured or sold by any party that is not Sensus. Failure of a Third-Party Device which subsequently causes failure to a Sensus device shall be the responsibility of the manufacturer of the Third-Party Device.

14. Software. Software supplied and/or licensed by Sensus is supported according to the terms of the applicable software license or usage agreement. Sensus warrants that any network and monitoring services shall be performed in a professional and workmanlike manner.

15. Return. Sensus' obligation, and Customer's exclusive remedy, under this Sensus Limited Warranty is, at Sensus' option, to either (i) repair or replace the product, provided the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location; or (ii) deliver replacement components to the Customer, provided the Customer installs, at its cost, such components in or on the product (as instructed by Sensus), provided, that if Sensus requests, the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location. In all cases, if Customer does not return the product within the time period designated by Sensus, Sensus will invoice, and Customer will pay within thirty days of the invoice date, for the cost of the replacement product and/or components.

The return of products for warranty claims must follow Sensus' Returned Materials Authorization (RMA) procedures. Water meter returns must include documentation of the Customer's test results. Test results must be obtained according to AWWA standards and must specify the meter serial number. The test results will not be valid if the meter is found to contain foreign materials. If Customer chooses not to test a Sensus water meter prior to returning it to Sensus, Sensus will repair or replace the meter, at Sensus' option, after the meter has been tested by Sensus. The Customer will be charged Sensus' then current testing fee. All product must be returned in accordance with the RMA process. For all returns, Sensus reserves the right to request meter reading records by serial number to validate warranty claims.

For products that have become discontinued or obsolete ("Obsolete Product"), Sensus may, at its discretion, replace such Obsolete Product with a different product model ("New Product"), provided that the New Product has substantially similar features as the Obsolete Product. The New Product shall be warranted as set forth in this Sensus Limited Warranty.

THIS SECTION 15 SETS FORTH CUSTOMER'S SOLE REMEDY FOR THE FAILURE OF THE PRODUCTS, SERVICES OR LICENSED SOFTWARE TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

16. Warranty Exceptions and No Implied Warranties. This Sensus Limited Warranty does not include costs for removal or installation of products, or costs for replacement labor or materials, which are the responsibility of the Customer. The warranties in this Sensus Limited Warranty do not apply to and Sensus has no liability for goods that have been: installed improperly or in non-recommended installations; installed in a socket that is not functional, or is not in safe operating condition, or is damaged, or is in need of repair; tampered with; modified or repaired with parts or assemblies not certified in writing by Sensus, including without limitation, communication parts and assemblies; improperly modified or repaired (including as a result of modifications required by Sensus); converted; altered; damaged; read by equipment not approved by Sensus; for water meters, used with substances other than water, used with non-potable water, or used with water that contains dirt, debris, deposits, or other impurities; subjected to misuse, improper storage, improper care, improper maintenance, or improper periodic testing (collectively, "Exceptions"). If Sensus identifies any Exceptions during examination, troubleshooting or performing any type of support on behalf of Customer, then Customer shall pay for and/or reimburse Sensus for all expenses incurred by Sensus in examining, troubleshooting, performing support activities, repairing or replacing any Equipment that satisfies any of the Exceptions defined above. The above warranties do not apply in the event of Force Majeure, as defined in the Terms of Sale.

THE WARRANTIES SET FORTH IN THIS SENSUS LIMITED WARRANTY ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO THE GOODS, SOFTWARE, SOFTWARE LICENSES AND SERVICES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS, WARRANTIES, CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS SENSUS LIMITED WARRANTY OR WITH THE TERMS OF SALE, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.

SENSUS ASSUMES NO LIABILITY FOR COSTS OR EXPENSES ASSOCIATED WITH LOST REVENUE OR WITH THE REMOVAL OR INSTALLATION OF EQUIPMENT. THE FOREGOING REMEDIES ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES FOR THE FAILURE OF EQUIPMENT, LICENSED SOFTWARE OR SOFTWARE SERVICES, AND OTHER SERVICES TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

17. Limitation of Liability. SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION

(COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE OR OTHERWISE.

AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (i) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (ii) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER(S), IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (iii) ANY IN/OUT COSTS; NOR (iv) MANUAL METER READ COSTS AND EXPENSES; NOR (v) DAMAGES ARISING FROM MAINCASE OR BOTTOM PLATE BREAKAGE CAUSED BY FREEZING TEMPERATURES, WATER HAMMER CONDITIONS, OR EXCESSIVE WATER PRESSURE. "IN/OUT COSTS" MEANS ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN TRANSPORTING GOODS BETWEEN ITS WAREHOUSE AND ITS END USER'S PREMISES AND ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN INSTALLING, UNINSTALLING AND REMOVING GOODS. "END USER" MEANS ANY END USER OF ELECTRICITY/WATER/GAS THAT PAYS CUSTOMER FOR THE CONSUMPTION OF ELECTRICITY/WATER/GAS, AS APPLICABLE.

The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

Etna's Supplemental to the RFP

SUPPLEMENT TO ETNA SUPPLY COMPANY'S PROPOSAL

This Supplement is an integral part of Etna Supply Company's proposal to Owner, and it shall become part of the Contract Documents if Owner accepts Etna Supply Company's proposal.

WARRANTY:

PRODUCT WARRANTY

CONTRACTOR DOES NOT WARRANT ANY GOODS SOLD UNDER THE CONTRACT DOCUMENTS IN ANY RESPECT, SUCH SALE BEING ON AN "AS IS" BASIS. CONTRACTOR DOES, HOWEVER, HEREBY ASSIGN TO OWNER ANY AND ALL MANUFACTURER'S WARRANTIES RELATING TO SUCH GOODS TO THE EXTENT SUCH WARRANTIES ARE ASSIGNABLE, INCLUDING:

Sensus Limited Warranty – G-500

Sensus AMI AMI System Performance Warranty – CF-C-WAR-00-01-0814-01-A

Without accepting any liability for, or extending any warranty relating to, the goods sold under the Contract Documents, Contractor agrees to act as a servicing agent for Owner's warranty claims against the manufacturer of such goods, so long as a valid warranty remains with respect to such goods. In that regard, Contractor will communicate such claims by Owner to the manufacturer and use reasonable efforts to work with the manufacturer to satisfy the claim. The Owner may at all times contact the manufacturer directly and Contractor is not responsible for any delay, expense, costs or damages of Owner relating in any way to such warranty claims.

LABOR WARRANTY

NOTWITHSTANDING ANY OTHER WARRANTY OR GUARANTY LANGUAGE IN ANY OF THE CONTRACT DOCUMENTS TO THE CONTRARY, THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY CONTRACTOR RELATING TO THE WORK OR THE PROJECT IS A ONE-YEAR WARRANTY ON LABOR FROM THE DATE OF INSTALLATION. CONTRACTOR DISCLAIMS ANY OTHER WARRANTY WITH RESPECT TO THE GOODS AND/OR SERVICES SOLD HEREUNDER, EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING WITHOUT LIMITATION DESCRIPTION, QUALITY, DESIGN, PERFORMANCE, SPECIFICATIONS, CONDITION, MERCHANTABILITY, AND FITNESS FOR ANY PARTICULAR PURPOSE. CONTRACTOR DISCLAIMS ALL INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES.

Maintenance Service Contracts

See pricing section for information on Maintenance Service Contracts.

Licensing Fees

Please see pricing section for more information.

Encoder Register Replacement

If a register is needing to be replaced ETNA will replace the entire meter.

Radio Frequency Device and Collector Maintenance

Solution Recommendations

ETNA has included one (1) base station to cover the Township of Van Buren's Water distribution area. ETNA is pleased to present the Township of Van Buren with a solution for your water meters. The Sensus accuStream Positive Displacement Water Meter for your meter sizes 5/8" thru 1". As for larger sizes we are offering the Sensus Omni R2 and C2 Water Meters. The Township of Van Buren would be responsible for any meter swap fees. ETNA recommends that the Township of Van Buren contact their billing vendor for pricing on interfacing with the Sensus solution and Meter swaps. Along with the meters, we are offering the Sensus Enhanced (SA) solution for meter data reporting,.

Frequencies Utilized

Sensus operates on two licensed bands in the United States, NBPCS (Narrow Band Personal Communication Service) and MAS (Multiple Address System) frequencies. NBPCS is licensed spectrum and thus is protected from interference. The NBPCS licenses provide single frequency nationwide coverage in both the U.S. and Canada. Sensus has eight frequency blocks available in the 901 to 902 MHz range (N1, N2, N3, N4, N5, R17, M32, and N25), one in the 930 to 931 MHz range (N19), and five in the 940 to 941 MHz range (N1, N2, N3, N4, and N5). Frequencies in the 901 to 902 MHz range are used for uplinks from the endpoint to the Base Station. Frequencies in the 940 to 941 MHz and 930 to 931 MHz ranges are used for downlinks from the Base Station to the endpoints as well as endpoint to endpoint transmissions. MA's frequencies in the 928 to 929 MHz and 932 to 932.5 MHz ranges are used for uplinks from the endpoint to the Base Station. MA's frequencies in the 959.85 to 960 MHz and 941 to 941.5 MHz ranges are used for downlinks from the Base Station to the endpoint as well as endpoint to endpoint transmissions.

FlexNet Solution Overview

Sensus is an industry leader in RF fixed-based AMI Solutions. This solution is based on an FCC-licensed, long-range RF network that offers scalable, reliable, two-way communications. Unlike mesh networks,

FlexNet's primary-use spectrum is protected by law from interference. The unique point-to-multipoint FlexNet network offers stronger signal and range, and end-to-end IPv6 communication across platforms. Fewer takeout points also reduce risk of data loss during inclement weather.



Reliability

- No frequency sharing—and no interference
- Long-range radio communication network
- Fast outage restoration
- 20M end points deployed



Reach

- Transmits up to two watts
- More data, more often
- 500+ AMI customers supported



Control

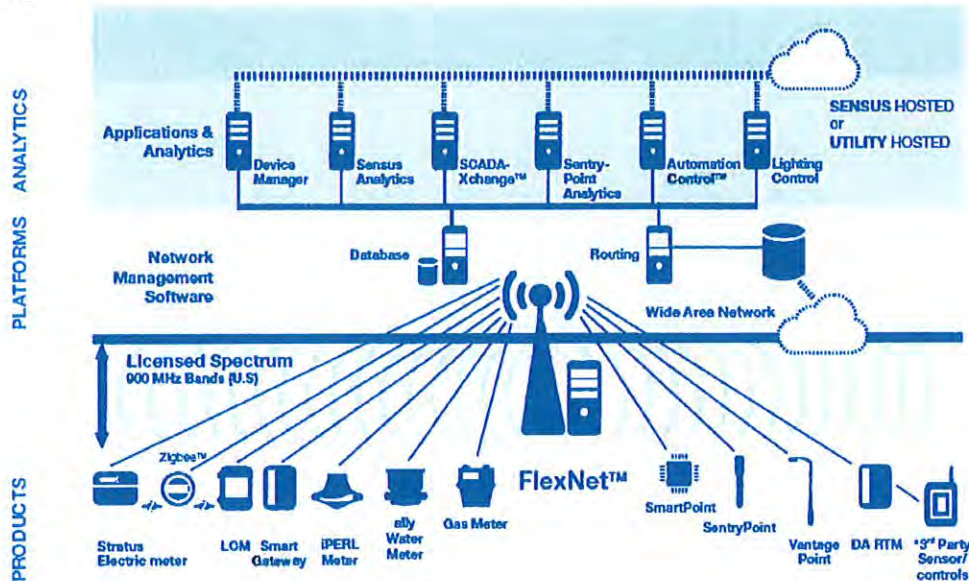
- Private, licensed spectrum
- Direct connection—no hops
- Easily add new applications

The FlexNet System offers channelization, as well as unparalleled coverage and redundancy in a system that is secure, weather-hardened, robust, and future-facing. Additionally, this solution easily grows to accommodate future needs such as Demand Response (DR) programs, Distribution Automation (DA), prepayment, Home Area Networks (HAN), Lighting control (Vantage Point), and other applications without large additional capital expenditures or major network overhauls.

The FlexNet Head End System is the AMI Management System that sits atop the AMI communications network, providing open, standards-based interfaces and Application Programming Interfaces (APIs) to the Township of Van Buren's back office systems. Within the FlexNet Head End System, which is called a Regional Network Interface (RNI), reside a number of servers and databases which support the interfaces to back office systems and provide the business logic and services that comprise the AMI Management System. Using standard TCP/IP connections, the FlexNet Head End System connects to FlexNet Base Stations via a wide area network to form the AMI Communications Network. High powered, two-way, long-range radio communication modules called Smart Points connect smart electric meters, smart water meters, smart gas meters, Distribution Automation (DA) devices, street lighting, and load control devices to the AMI Communications Network.

Sensus FlexNet System Communication

Sensus' industry leading two-way wireless AMI Communications Network (the FlexNet system) uses the IPv6 protocol over multiple synchronized, high-performance 900 MHz primary-use FCC-licensed bands. The FlexNet system operates on FCC-protected, extended range, and extended penetration Personal Communications Service (PCS) frequencies. Top level specifications of the wireless solution include the following:



- Inbound RF frequencies operate at 901/932/928 MHz
- Inbound RF frequencies operate at 2 watts of power (a minimum of two times all competitors).
- Outbound RF frequencies operate at 930/940/941/959 MHz
- Outbound RF frequencies operate at up to 30 watts of power (a minimum of 30 times all competitors).
- Greater than 95 percent of Smart Points typically maintain redundant paths to two or more FlexNet Base Stations. Designs with 100 percent redundancy can be accommodated.
- Typical as built ranges are a three to seven-mile radius from the FlexNet Base Station.
- Capacity supports up to 70,000 endpoints per FlexNet Base Station.
- Management and troubleshooting of network are provided by advanced industry leading status dashboards with drill-down capability to analyze FlexNet Base Stations and endpoints.
- Alarms and alerts are sent via RF sub channels that do not compete with meter data reading, SCADA, or Distribution Automation (DA) traffic.

The FlexNet AMI system provides utilities with the industry's best investment protection and obsolescence avoidance over a 20-year operating horizon. Smart Points and FlexNet Base Stations are built with software-defined radios that are field proven to permit future advancements in radio modulations and RF spectrum.

Smart Points

Sensus Smart Points provide two-way wireless communications capability for water, gas, and electricity meters. They can be programmed for anywhere from 5-minute (for electric metering) to daily readings. Smart Points transmit and receive data via the FlexNet AMI Communications Network to provide meter

readings, on demand information, remote disconnect and reconnect, diagnostic data, and to receive and validate configuration changes, new protocols and modulation, and firmware updates.

The Smart Points communicate with FlexNet Base Stations in multiple modes including the following:

- Normal mode allowing for direct communication to the FlexNet Base Station
- Poll/Response mode allowing a clear channel for responses from tower commands
- Alarm mode
- mPass mode for indirect communication from the meter to the FlexNet Base Station via other meters
- Boost Mode (water and gas only) for improved communications in very difficult RF environments

Installation on the network is accomplished via a hand-held set up device or self-discovery, depending on the type of endpoint and the requirements of the utility installation. The Smart Point uses Sensus FlexNet IP communications or native FlexNet communications to communicate with the network. These are configurable parameters. Future protocols can be supported via firmware download.

Any electric Smart Point can be used to repeat (mPass mode) an electric, water, or gas endpoint. There are no hardware differences. Any electric, water, or gas endpoint can be set in a mode (automatically or manually) to request mPass assistance. There are no hardware differences; this is simply a configuration parameter on the meter.

Licensed Spectrum Yields Performance, Reliability, and Risk Mitigation

FlexNet is the only widely accepted AMI system on the market today that operates on primary use licensed spectrum. This licensed spectrum with a legally protected right-of-way to its critical customer AMI data. Other systems operating on unlicensed spectrum have no protection against interference from other systems operating in the same band. This interference degrades the operation of the system over time and can completely jam areas of system operation. Other AMI vendors have publicly sought relief from the FCC when jamming occurs, but have received none. With this in mind, operating an AMI system on licensed spectrum offers many advantages and opportunities for risk mitigation. The FCC requires strict standards to operate in protected bands, so to overcome these issues, Sensus invented a new, patented set of modulations that provides near theoretic sensitivity (-122 dBm, >85% PSR & > 1 bit per Hz) and complies with the most stringent FCC requirements in not one, but two parts (FCC parts 24 and 101). The signal is completely software generated, never degrades, and uses no additional radio components, allowing it to be cost competitive. This achievement required 8 years of research, development, and field validation involving over 200 person-years of engineering and an investment of more than \$20 million. The unlicensed band (902 to 928 MHz and 2.4 GHz) noise floor used by Sensus competitors has been increasing approximately 10 dB for every 10 years since the unlicensed band was opened for free use in 1987. This noise results from the demand for free spectrum and the proliferation of hundreds of millions of radio devices operating in that band. A 10 dB increase in the noise floor transmission range in half. As range diminishes by half, collectors must increase fourfold (area = πr^2). Unlicensed spectrum is free but in exchange offers no protection of its use. In fact, if an unlicensed AMI system interferes with a licensed user such as Sensus FlexNet, they are required to shut down with no recourse. When Sensus notifies an interferer, they shut down with the FCC enforcing the Township of Van Buren's rights. An added benefit to FlexNet's licensed spectrum is that it is virtually noise-free. This allows for greater range and reliability of communication.

Backhaul Outage Handling

The FlexNet system has multiple layers of redundant data storage to allow for the maximum in recoverability of failures. The FlexNet Base Stations are designed to operate in harsh conditions and, in the unlikely event a failure occurs, the network is designed to typically have 2x FlexNet Base Stations covering each endpoint. The endpoints transmit historical readings and current readings on each transmission, allowing for periods of time when a FlexNet Base Station may not receive the communication. Base stations can store the last 30 days of hourly interval data that are received from the endpoints; thus, if communications are lost, the base stations may operate autonomously until the data link can be re-established without data loss. The FlexNet Head End System is made up of industry standard computers with no customization required. This allows for quick replacement should one fail.

The first device of the FlexNet Head End System, the Network Controller (NC), receives the readings from the FlexNet Base Stations and relays them to other servers and, through the JMS server, presents them for other systems to acquire. The NC stores a flat file of raw messages received from the network for the last 60 days. The utility database stores the last 60 days of processed messages in various views to allow for ease of access by the customer. The database uses a disk array for data storage, which has multiple disks aligned in a Raid 1.0 configuration for high reliability. Should any point along the communication path fail, recoverability is built such that data may be recovered from the preceding element. The servers may have a suitable maintenance agreement with the manufacturer such that they provide service in an agreeable amount of time.

Should the service of the FlexNet Base Station be performed through Sensus Technical Services, the point-of-contact is contacted via the Technical Services Help Desk. FlexNet Base Station and FlexNet Head End System escalation is handled by contacting the Technical Services department where they escalate to the appropriate responsible individuals.

Since the replication of data is built into the FlexNet system, no third-party software needs to be used for disaster recovery. To enable a Disaster Recovery/Business Continuity (DR/BC) secondary setup, the primary production FlexNet Head End System routes a second data stream to the secondary DR/BC FlexNet Head End System, which can be configured as a hot or cold standby. When switching to the alternate site, the FlexNet Base Stations are redirected to send their data to the secondary site where the DR FlexNet Head End System collects the data. The secondary site may also be configured to send a second data stream back to the primary, thus allowing for switching back and forth from the two sites. The switching may be done through manual efforts or scripts that are placed on the FlexNet Head End System. Alternatively, the switching may be made more autonomous through the use of commercial software. However, the FlexNet Base Stations are capable of storing data for up to 30 days, so this is not necessary.

Meters are recording data in load profile channels and storing the data in non-volatile memory. Once communications are restored the system automatically backfills missing interval data and end readings. The FlexNet Base Station may operate without a backhaul connection for up to 30 days where messages are stored encrypted locally on non-volatile memory. This is ample time to restore any network communication failure experienced without the loss of any data and the restoration of full redundancy. In the unlikely event that 30 days is not enough, LP&L can retrieve data locally using a laptop and RS-232

communications cable. A technician would access the FlexNet Base Station by logging into the device with an authorized password. The technician can then copy the spool file to the laptop and return to a location with active backhaul communications. Once the technician obtains a connection back to the Head End System, the file can be loaded into the Head End for decryption and data processing.

The FlexNet AMI system has multiple levels of redundancy to mitigate potential loss of data in the event of failure or power loss. Additionally, FlexNet is uniquely suited to reduced damage exposure due to its streamlined infrastructure. Thousands of miles of transmission and distribution lines and structures can be lost in a storm; this leaves alternative communication systems vulnerable given their downstream meter dependency on an alternative "hopping" scheme. As a result, they may not be able to communicate their status in an outage. FlexNet has been designed from the ground up to support superior outage detection via overlapping coverage. This enables a utility to find outage conditions and collect information needed to enable a fast power restoration process for impacted customers.

Fees for Location of Collection Devices

See pricing section for information on Maintenance Service Contracts.

Radio Frequency Technology

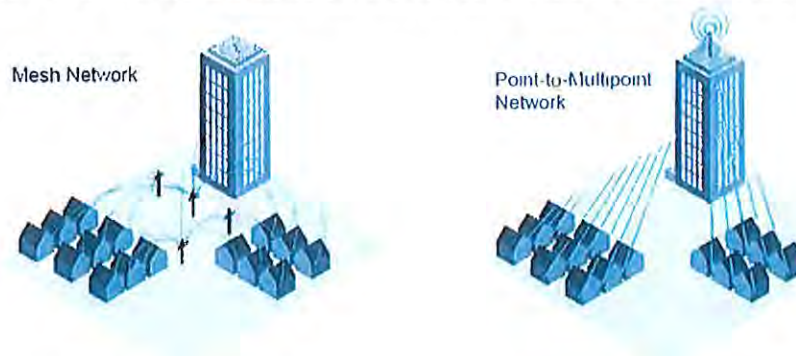
Competitive Advantages

Architectural Approaches

Mesh and point-to-multipoint are two distinct architectural approaches to two-way radio communication networks. In a mesh network, many radios (also referred to as endpoints) can talk to each other, peer-to-peer. Each point on the network can receive, store and transmit signals to other points in many directions. In a point-to-multipoint network, there is a relationship in which a single point can talk to all the other points individually and they can talk back to it—but not to each other.

There are

advantages and disadvantages to the two topographies. The two approaches can be applied to meet the needs of four important types of mission-critical utility communications: AMR, AMI, DA and SCADA.



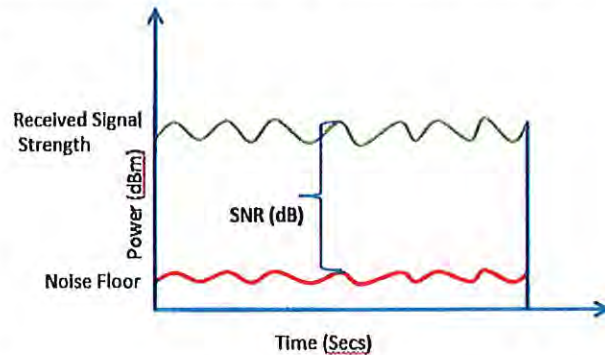
Signal Transmission Characteristics Privacy

All mesh networks use unlicensed spectrum for their communications channel. They operate on public, not private channels. Often referred to as the industrial, scientific and medical (ISM) frequency band, this spectrum is shared with a wide range of devices including cordless telephones, baby monitors, and wireless Internet access modems. Internationally, ISM bands are defined by the International

Telecommunication Union (ITU) Table of Frequency Allocations, in sections 5.138 and 5.150 of the Radio Regulations. Individual countries' use of the bands designated in these sections may differ due to variations in national radio regulations. Typical global ISM bands are 900 MHz, 2.4 GHz, and 5.8 GHz. In the United States, ISM devices are regulated by the Federal Communications Commission (FCC) under Code of Federal Regulations 47 Part 15. Specifically, CFR 47§15.5 contains a general provision that devices may not cause interference and must accept interference from other sources. It also prohibits the operation of devices once the operator is notified by the FCC that the device is causing interference. Currently the FCC has type accepted (approved for use) over 9,000 different models of devices that can be sold and operated in the 902-928 MHz ISM band. With these many devices operating without specific coordination or oversight, interference is not just probable, it is palpable. On the contrary, licensed spectrum networks are private. Government regulators lease or sell use of an assigned bandwidth range which may only be used by a specific licensed user in a particular region. Interference is not tolerated within that region, and is protected by government agency enforcement, as noted above.

Signal-To-Noise Ratio (Snr) & Interference

Unlicensed mesh networks often have a high noise floor. A noise floor is like people talking during a movie; due to the number of voices being heard, understanding what's being said during the movie becomes more difficult. When industrial, institutional and medical devices are all sharing spectrum, the noise floor is high. With more devices "talking" above, below, and even on the same operating frequency, utilities that deploy a mesh system architecture face challenges in the signal-to-noise ratio because the public spectrum receiver sensitivity is reduced, causing signal to noise ratios to fall. High signal-to-noise ratios are ideal because they offer superior throughput and reliability. Unfortunately mesh networks are vulnerable to high noise levels generated in shared frequencies. This reduces the ratio and provides inferior throughput and reliability.



A common tactic to combat low signal-to-noise ratios is to reduce the distance between a transmitter and receiver in which an access point/collector can operate. Within a dramatically smaller operating area, endpoints are physically closer and signal-to-noise ratios are increased. Even if noise is prevalent in an area, stronger SNRs can overcome interference but with a significant loss of range.

Another approach to avoiding interference is to exploit access to a wide or large band by either: (1) sending a Direct Sequence, high speed transmission to disperse the signal across the band, much like a garden hose spray can be fanned out to a wide fast flow; or (2) Frequency Hopping, in which the signal switches rapidly from one frequency to another according to a pseudorandom code. Licensed spectrum systems have a naturally low noise floor, maintaining excellent signal-to-noise ratios even across larger distances and in the presence of signals on nearby bands. And like an open highway, signal traffic can move swiftly and travel further than when plagued by congestion.

Range

Unlicensed mesh networks, being public, are prohibited from generating more than one watt of output, so their signals' range is limited. (This is the case in the U.S.; allowable power output varies from country to country and ISM band to ISM band.) Even if they could transmit further, they would suffer poor signal-to-noise ratios across longer distances. For these reasons, mesh networks locate many points close together and move signals across a larger area through a series of short-range transmissions to intermediate nodes. Licensed spectrum systems enable utilities to use higher power levels to optimize performance. Because of this flexibility, licensed spectrum networks are virtually interference-free and untroubled by crowded channels, as opposed to mesh networks whose power allotment largely relegates architecture to line-of-sight coverage only. Licensed spectrum signals routinely reach many times the distance of mesh signals.

Bandwidth Requirements

Unlicensed mesh networks use a lot of bandwidth for each transmission because the data 'hops' from node to node and requires a new slice of spectrum for each step. As such, the cumulative sum of

bandwidth for sending a signal from its source to a final endpoint can really add up. Licensed spectrum systems can work with a narrower band; however private spectrum is not as abundant as public spectrum. It's not free, either; but must be purchased or leased, sometimes in auctions where bidders must compete for licensed bandwidth.

Latency

Unlicensed mesh networks involve a processing step with each node they reach, and this slows the signals process to its destination. This lag or latency increases not only with distance but when there is traffic from voice communications or a high volume of other data. In the example below, a 100 Kbps data stream is affected by latency issues. As data travels from endpoint to a collector via two nodes, the wide bandwidth is reduced to only 5 Kbps throughput. Assuming an average of only one hop, a theoretical 100-byte packet can be transmitted only 12 times a second. The only way to reduce latency to improve data throughput is to reduce the number of hops but this means more backhaul. Mesh networks' backhaul typically consists of collectors connected to a DSL line, fiber, microwave or cellular 3G+ connection. Assuming a two square mile collector coverage area within a typical 400 square mile territory (20 miles by 20 miles), 200 collectors would be needed to support the entire territory. This would mean 200 broadband connections, one to each collector. Prices for backhaul will differ depending on methodology and system requirements, but for many sites, both costs and system complexity increase.

Licensed spectrum systems allow signals to move through fewer or no midpoint nodes, so processing time is minimal and the signal moves swiftly to its destination. Low latency, or reduced delay time, may be increasingly important in the data-heavy smart grid era of the 21st century.

Distribution Automation

Wireless communications in distribution automation unlock the intelligence of the grid by enabling real-time monitoring of a wide array of automation technologies across dispersed assets where physical communication lines would be costly to install and difficult to access for maintenance or monitoring. Wireless networks communicate with distribution automation assets including reclosers, capacitor controls, switch controls, faulted circuit indicators, voltage regulators, breakers and other status monitoring applications. Many routine operations that formerly required sending personnel to visit distant sites can be supervised from the operations center, allowing faster response to events. Engineers can view operations history and other historical data, such as load data from line reclosers, for improved system planning. Faster power restoration and greater efficiency and reliability in transmission and distribution efforts ultimately deliver results that build satisfaction among investors and rate payers. The challenge of "last mile" communications is ideally treated with wireless communications, often providing utilities the first affordable and reliable link to remote substations. By strengthening this weakest link in utility enterprise communications, wireless networks help enable end-to-end smart grid operations.

Supervisory Control and Data Acquisition (SCADA)

Wireless communications networks for Supervisory Control and Data Acquisition (SCADA) provide affordable, fast and reliable communications that work with any configuration or architecture. They help give "legs" to SCADA's oversight authority. They add flexibility and can enhance security for SCADA when prudently deployed. Communications between a substation's intelligent devices and control center SCADA provides essential data for multiple, simultaneous mission-critical operations, including

protection, automation, control and testing; asset monitoring and management; remote configuration management; engineering access; and remote data collection and analysis.

Conclusion: A Buyer's Guide to Smart Wireless Investing

The factors that affect a utility's choice of a wireless network are highly influenced by the individual organization's resources, goals and challenges. In practice, a combination of mesh and private/point-multipoint approaches may exist across a utility's different applications or even within them as projects scale and grow. For example, a small metering mesh network may connect to a point-multipoint communications network for backhaul of data to a centralized control center. Both approaches are based on open standards and can be scaled to grow. To maximize return and "future proof" an investment, avoid any network that requires all proprietary communications and lacks interoperability with other vendor solutions. While private spectrum offers greater privacy, security, range, signal-to-noise ratio and latency, public spectrum is free and its topography provides innate redundancy. Consider the cost of spectrum and infrastructure installation as well as maintenance expenses throughout the lifecycle of the assets.

Special Access Requirements for Radio Antenna and Related Equipment

Comparing Propagation Study Methods

Identifying the appropriate number of collectors needed for an effective deployment has historically been determined by using the cookie-cutter method. In this model, all utilities – regardless of geography, population or existing or potential collector sites – are treated the same. Collectors are generically placed along a predetermined grid – typically as close as every half mile – based strictly on square miles and a mathematical equation with little or no regard for meter-to-collector connectivity calculations, normally referred to as the "link budget". This application maximizes system requirements and adds to the overall cost of installing and maintaining a fixed base system because collectors are often installed regardless of need. Furthermore, without using the physical location of meters (indoor/basement, etc.) in a design and placing collectors at random locations – the chance of missing higher priority readings increases dramatically. As expected, problems can be numerous with this method. The approach does not guarantee the placement of collectors is possible, or if they will perform well. Nor does it have data to predict strength of the meter-to-collector signal. As a result, the utility often encounters unforeseen issues, such as inadequate facilities and property rights, and/or leasing troubles during the deployment stage, and the inevitable coverage lapses following deployment. Without proper system analysis, the utility is forced to adjust infrastructure requirements during implementation, resulting in increased capital costs and higher operational and maintenance needs. With the use of collector-based AMI systems, "right-of-way" usage is harder to come by as years pass. There are two important reasons for this. First, most new developments have chosen to install utilities underground, which prohibits the use of pole space. Secondly, the cost of installing on overhead locations has increased, further escalating the finances of the total project. Also, the sheer number of sites stresses utility manpower for maintenance and repair, impacting the system's life-time costs and possibly making a system deployment economically unfeasible. The **Sensus Propagation Modeling** system differs from this overly-structured approach. It centers on working with each utility as a unique organization with its own set of circumstances. The comprehensive study is built by pulling a myriad of assets and liabilities together to create a customized approach to system deployment. The Sensus

system is grounded on the belief that, in a data collection network, system performance is measured by the percentage of data received from meters. In order to reach an acceptable performance level, a good reception rate must be maintained from all transmitters. The number and locations of collector sites must be suitable to match the expected performance goals of the network. For this purpose, a propagation model of the radio link is built.

Sensus Propagation Modeling Parameters

In order for a fixed base system to provide accurate data, regularly, from meters, the accuracy and validity of the data must be ensured by the quality of the meter modules and the robustness of the error-free wireless communication protocol. A message transmitted by a meter is measured via message reception probability, or, the likelihood of that message being received and properly decoded by a receiver. This probability generally depends on terrain characteristics, and clutter, such as vegetation and buildings. Propagation modeling is used in order to predict this parameter. Message availability is defined as the probability of a message being available, i.e. properly received, at least once over a specified period. This term is associated with message redundancy, which is the number of times messages are transmitted within that specified period. Message availability is calculated as: $A = 1 - (1 - P)^n$, where A is the message availability, P is the reception probability (= message reliability) and n is the number of messages per (typically one day) period. For example, with a message reliability of 70%, and redundancy of two messages per day, the daily message availability would be $1 - (1 - 0.7)^2 = 0.91$. In other words, if meter modules are initialized to transmit reads twice a day and each message has 70% reliability, at least one message would be received daily from 91% of the meter modules. Since this is a statistical phenomenon, there is no connection between the 91% received on day X and the 91% received on day Y. The measured system (or network) availability is calculated as the number of meter modules received (at least once) that day, divided by the total of meter modules deployed. Note that there is a tradeoff between message redundancy, which increases availability, and other system parameters, most notably meter module battery life in the case of water and gas meters. The propagation modeling processes is as follows:

- Set message availability goal
- Define message redundancy (e.g. to ensure sufficient battery life)
- Calculate desired message reliability: $P = 1 - (1 - A)^{1/n}$
- Determine required signal strength, using normal distribution curves and the fixed base receiver sensitivity
- Create a coverage map showing proposed site locations, predicted reception, and the number of collector's that would 'receive' each meter module location

For example, to obtain 98% availability at two messages per day, $P = 1 - 0.02^{0.5} = 0.86$. To reach 86% reliability, the signal strength would need to be -113.4 dBm, 8.6 dB above the receiver sensitivity of -122 dBm. The propagation model will predict, for various collector location combinations, the coverage areas of the system. The produced map also indicates how many receivers cover each transmitter location. The area to be covered is defined before the propagation prediction is made. The propagation prediction will typically predict signal strengths in an area to 90% accuracy. With specific availability and reliability goals defined, the result of the model is a recommendation for the amount and location of base stations. Sensus advises its customer to consider several important factors when determining the number of collector sites needed for its new system. The first factor is a collector site's characteristics. To avoid the cost of constructing new sites, various tower and rooftop availability databases should be

considered to determine the availability of suitable sites. Utility-owned towers and rooftops should be investigated first to reduce recurring costs. Site characteristics that are required by the propagation model are latitude and longitude coordinates, antenna height, the number of radials to be used in calculations, the distance from the site to be modeled, and ground elevation of the site. Model characteristics are also reviewed, such as operating frequency, earth curvature, the percentage of time in which the signal strength exceeds the predicted value, the percentage of meter module locations in which the signal strength exceeds the predicted value, clutter properties from buildings or average height of obstacles, transmitter height, antenna polarization, and transmitter power. Transmitter power for each meter, whether it be water, gas, or electric, are constant. Rather, it is the physical location that creates attenuation values for the modeling. Elements of the receiver are also examined, such as the antenna gain, center line of the antenna, transmission line loss, connectors, and any other losses that may occur.

Preparing for a Propagation Study

Before Sensus begins its study for a utility, a report of infrastructure assets as well as its growth potential and goals are compiled by utility personnel. Sensus also discusses deployment expectations and system requirements with utility officials, to ensure that implementation requirements and system performance expectations are clearly understood. This up-front work is crucial to give Sensus enough information to complete the modeling process, but it is also beneficial to the utility, because it will then have a complete understanding of the process and how it will ultimately help in meeting the organization's performance goals today and in the future. Once this information is established and the necessary preliminary data is collected, the study begins.

Performing the Modeling

Once all the critical items have been identified, the next step is to transfer the information to propagation modeling software. Mapping is used to consider additional assets and liabilities that may affect network coverage. Four layers of mapping are constructed: Meter locations, prospective collector locations, the Digital Elevation Model, and Land Use/Land Clutter. First, the planner plots the area on the mapping software in order to get a complete picture of the terrain. Terrain is an important factor of performance indicators, as it can fluctuate from location to location. Once the territory has been plotted and identified, the proposed collector sites are included as part of the model. These factors are then combined to identify the physical surroundings of the proposed system, known as land use clutter, which could mean trees, buildings, homes or anything that will further attenuate the signal from the meter to the collector. Plotting these items and identifying their connection to system performance provides flexibility in design and assists the process to define system requirements. Additional factors are also entered into the mix to properly complete the evaluation. Information to be added includes:

- Meter locations (inside or outside the structure, and above or below ground, etc.) and their distance to proposed collector sites
- Population density
- Future growth plans
- Territory boundaries
- Read requirements (read delivery time for billing, special reads etc.)

The Final Report

Once the evaluation is completed, a recommendation is presented with supporting documentation describing system infrastructure requirements. The completed propagation study provides the necessary information to strategically place collector's in order to achieve the most economical and effective solution. Often, the number of proposed sites exceeds the number of hosts needed. Typically, the model returns recommendations for fewer collector devices than utility officials anticipated, and is the first pleasant surprise and cost-saving measure in the process.

Township of Van Buren - Propagation Study results

We did a propagation study based on territory coverage and we will have the coverage needed for the Sensus FlexNet AMI solution using 1 Base station to cover Township of Van Buren services within its distribution system. The following Base station location sites were utilized to provide this coverage.

Site Name	Latitude	Longitude	Base Station Elevation	Minimum Antenna Clearance Feet	Antenna Model	Base Antenna ID (Accession #)	Base Antenna Alt (Accession #)	Base Antenna Azimuth (Degrees)	Base Antenna Elevation (Degrees)	Base Antenna Frequency (MHz)	Base Antenna Power (Watts)	Base Antenna Status	Base Antenna Notes
Van Buren Water Tower	42.201751	-82.426117	84.0000	74	DS2000-1	000	0	0	0	0	0	0	One antenna will be located on top of the tower and be used to provide coverage for the entire area of the town. The other antenna will be located on the ground and be used to provide coverage for the entire area of the town.

Category	Meters
Covered	6,793
Not Covered	112
Meters Read @ Contract RIS Rate	6,691
Total Meters Analyzed	6,905

FlexNet Design
Propagation Analysis

6042 - VAN BUREN
TOWNSHIP
Belleville, MI

RF Engineer: Joel Sedeski
Date: 8/22/2017
Version: 1

FSK: 13
Meter Type: Water
Smart point Location: Indoor

Information reported due to Smart point Location: 11.00

Category	Meters
Covered	6,793
Not Covered	112
Meters Read @ Contract RIS Rate	6,691
Total Meters Analyzed	6,905

LEGEND:

- Area of Coverage
- Base Station
- Meter

SENSUS
axiomatic

This propagation study is based on actual information provided by the utility pertaining to meter type, Smart point Location, potential antenna height on structure, structure height, and structure location. Any changes, deletions and/or additions that are not provided to the design engineers during the creation of this design may result in a study that does not correlate to actual field conditions.

For all tower mounted antennas, a minimum antenna standoff of 3' is required from the tower.

Request for Proposal



The base station will require 120V / 20-amp service for power and backhaul to the Network Controller. ETNA would require the Township of Van Buren to provide this at the site.

4 – Additional Information

Residential Solid-State Remote Disconnect Water Meter

Please see below for an additional option for implementing this new system.



Electromagnetic Flow Measurement with Integral Three-State Ball Valve

Remote Shutoff is another facet of system options to consider.

The Sensus ally® water meter is groundbreaking technology that sets a new standard in water distribution system management. This residential smart water meter features an integrated, three-state remote service valve for remote shut off, turn on and reduced flow. ally also has pressure and temperature sensors and alarms available.

The innovative electromagnetic flow measurement technology of the ally meter allows enhanced accuracy ranges at both low and high flows and perpetual accuracy over the life of the product. It can be installed horizontally, vertically or diagonally. The ally meter has a 20-year life cycle, along with a 15-year accuracy warranty.

- Control three stages of water flow remotely (on, off, reduced)
- Get smart alarms including empty pipe, high flow, reverse flow, low and high pressure and temperature, leak and tamper
- Detect leaks to save money and conserve water
- Monitor pressure at service connection
- Monitor freeze conditions
- Improve operational efficiency (fewer truck rolls)
- Improve customer service

Charter Township of Van Buren

REQUEST FOR BOARD ACTION

Agenda Item _____

WORK STUDY MEETING DATE:
2020-12-01

BOARD MEETING DATE:
2020-12-01

Consent Agenda _____

New Business X

Unfinished Business _____

Public Hearing _____

ITEM (SUBJECT)	Optional Meter Project Items
DEPARTMENT	Public Services – Water & Sewer
PRESENTER	James T. Taylor, Water & Sewer Director
PHONE NUMBER	734-699-8947
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Matthew Best, Public Services Director

Agenda topic

ACTION REQUESTED	
Recommend the Township Board of Trustees approve the optional priced items for the AMI Meter System Replacement Project to ETNA Supply, Inc. in the amount of \$135,075.00.	

BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
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See attached information.

BUDGET IMPLICATION	To be paid from the Water & Sewer Capital Outlay 592-537-970-003.
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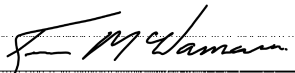
IMPLEMENTATION NEXT STEP	Approval by Township Board.
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DEPARTMENT RECOMMENDATION	Approval recommended by Water & Sewer Director
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COMMITTEE/COMMISSION RECOMMENDATION	
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ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	

ADDITIONAL REMARKS	
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APPROVAL OF SUPERVISOR	
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OPTIONAL PRICING ON PAGES 2-3

BID COST BREAKDOWN

BIDDER NAME: ETNA SUPPLY CO.

	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	WATER METERS and MIU's (including valves, pipes, fittings, etc.)				
1.1	5/8"	3281	Each	\$ 230 ⁰⁰	\$ 754,630 ⁰⁰
1.2	3/4"	1	Each	\$ 255 ⁰⁰	\$ 255 ⁰⁰
1.3	1"	3140	Each	\$ 280 ⁰⁰	\$ 879,200 ⁰⁰
1.4	1-1/2"	130	Each	\$ 725 ⁰⁰	\$ 94,250 ⁰⁰
1.5	2" T10	154	Each	\$ 805 ⁰⁰	\$ 123,970 ⁰⁰
	2" Compound	2		1440 ⁰⁰	2880 ⁰⁰
1.11	Subtotal Part 1 (WATER METERS)				\$ 1,855,185 ⁰⁰

	DESCRIPTION	QUANTITY (See Notes at end of this section)	UNIT	UNIT PRICE	AMOUNT (See Notes at end of this section)
3	AUTOMATIC METER INFRASTRUCTURE (AMI) SYSTEM				
3.1	Complete fixed base AMI System		Lump Sum	\$	\$ 81,650 ⁰⁰
3.2	Interface equipment and software for the BS&A Software/AMI interface, including installation.		Lump Sum	\$	\$ INCLUDED
3.3	Data file format for interface with standard utility billing system				INCLUDED
3.4	Subtotal Part 3 (AMI SYSTEM)				\$ 81,650 ⁰⁰
4	SPARE PARTS AND EQUIPMENT (unit prices include delivery to TOWNSHIP)				
4.1	5/8" Meter	1	Each	\$ 60 ⁰⁰	\$ 60 ⁰⁰
4.2	3/4" Meter	1	Each	\$ 85 ⁰⁰	\$ 85 ⁰⁰
4.3	1" Meter	1	Each	\$ 110 ⁰⁰	\$ 110 ⁰⁰
4.4	1-1/2" Meter #18	1	Each	\$ 285 ⁰⁰	\$ 285 ⁰⁰
4.5	2" Meter T-10 #18	1	Each	\$ 295 ⁰⁰	\$ 295 ⁰⁰
4.6	2" Meter Compound #18	1	Each	\$ 690 ⁰⁰	\$ 690 ⁰⁰

4.7	Meter Interface Unit with Integrated Battery	1		105 ⁰⁰	105 ⁰⁰
4.8	Battery for Meter Interface Unit	-	Each	\$ N/A	\$ -
4.9	Hand-held Interrogation Unit and up/downloading system.	1	Each	\$ 1650 ⁰⁰	\$ 1650 ⁰⁰
4.10	Battery for Hand-held Interrogation Unit	-	Each	\$ N/A	\$ -
4.11	Battery for Hand-Held MIU Programming Units (if separate from Hand-held Interrogation Unit)	-	Each	\$ N/A	\$ -
4.12	Subtotal Part 4 (SPARE PARTS AND EQUIPMENT)				\$ 3280 ⁰⁰
5	LUMP SUM COST FOR ALL OTHER WORK NOT INCLUDED UNDER ITEMS 1 THROUGH 4				
5.1	Mobilization		Lump Sum	\$ 5000 ⁰⁰	\$ 5000 ⁰⁰
5.2	Performance Bond		Lump Sum	\$ 20,000 ⁰⁰	\$ 20,000 ⁰⁰
5.3	Payment Bond		Lump Sum	\$	\$ INCLUDED
5.4	O&M Manuals		Lump Sum	\$ 1500 ⁰⁰	\$ 1500 ⁰⁰
5.5	Training and Training Manuals		Lump Sum	\$ 1500 ⁰⁰	\$ 1500 ⁰⁰
5.6	Subtotal Part 5 (LUMP SUM ITEMS)				\$ 28,000 ⁰⁰
	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
6	OPTIONAL PRICING				
6.2	Replacement of all existing 3" WATER METERS (including valves, pipes, fittings, etc.)	16	Each	\$ 1665 ⁰⁰	\$ 26,640 ⁰⁰
6.3	Replacement of all 4" WATER METERS (including valves, pipes, fittings, etc.)	14	Each	\$ 2925 ⁰⁰	\$ 40,950 ⁰⁰
6.4	Replacement of all 6" WATER METERS (including valves, piping, fittings, etc.)	5	Each	\$ 4640 ⁰⁰	\$ 23,200 ⁰⁰
6.5	Extended maintenance of AMI System and BS&A Software Billing System interface for two years including: hosting, storage and maintenance of data collection units and computer hardware and software, and technical customer support service.			-	-
6.5.1	Year 1: \$ 21,575 ⁰⁰ (2)		Lump Sum	\$ 21,575 ⁰⁰	\$ 21,575 ⁰⁰
6.5.2	Year 2: \$ 22,710 ⁰⁰ (3)		Lump Sum	\$ 22,710 ⁰⁰	\$ 22,710 ⁰⁰
6.5.3	Total two-year extended maintenance cost (5.1.1 +5.1.2)		Lump Sum	\$ -	\$ -

6.6	Subtotal Part 6 (OPTIONAL PRICING)				\$ 135,075 ⁰⁰
7	TOTAL PROPOSED COST (1.11+2.5+3.4+4.11+5.6)				\$ 1,968,115 ⁰⁰

(One Million Nine Hundred Sixty Eight Thousand One Hundred Fifteen ⁰⁰/₁₀₀ Dollars and _____ Cents)

Notes:

Unit price quantities listed in the Bid Cost Breakdown are approximate. Bidders are to understand that actual quantities may under-run or over-run the unit price work items in the Bid Cost Breakdown of the executed Contract. The Contractor will only be paid based on the actual units installed.

All Work required by the Contract Documents that is not specifically covered by the Unit Price Work is considered as included in the lump sum portion of the Work.

If the provision of an item does not apply, the Bidder shall enter the words "Not Applicable" in the "Unit Price" and "Amount" columns.

Bidder herewith declares that the Bid Cost Breakdown includes all items of services, obligations, responsibilities, materials, tools and devices, all necessary equipment, commissioning, royalties and license fees, construction equipment, taxes, escalation for the duration of the Contract, site clean-up and restoration traffic control, control surveys, field offices, close-out, independent testing laboratory services, overhead and profit and all connections, appurtenances and any other incidental items of any kind or nature, as are necessary to complete the Work in accordance with the Contract Documents.

The Bidder agrees to perform the Work encompassed by each item on the Bid Cost Breakdown at the established unit price, as directed by the Township and regardless of the variation in the quantity.

Charter Township of Van Buren

REQUEST FOR BOARD ACTION

Agenda Item _____

WORK STUDY MEETING DATE:
2020-12-01

BOARD MEETING DATE:
2020-12-01

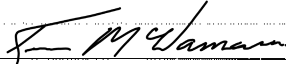
Consent Agenda _____ New Business X _____ Unfinished Business _____ Public Hearing _____

ITEM (SUBJECT)	Spectrum Lease Agreement
DEPARTMENT	Public Services – Water & Sewer
PRESENTER	James T. Taylor, Water & Sewer Director
PHONE NUMBER	734-699-8947
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Matthew Best, Public Services Director

Agenda topic

ACTION REQUESTED	
Recommend the Township Board of Trustees approve the lease agreement for FFC license with Spectrum.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	

In order for Sensus to apply to the FCC on the Township's behalf for a spectrum manager lease, the Township must authorize application. See attached documents.

BUDGET IMPLICATION	None
IMPLEMENTATION NEXT STEP	Approval by Township Board.
DEPARTMENT RECOMMENDATION	Approval recommended by Water & Sewer Director
COMMITTEE/COMMISSION RECOMMENDATION	
ATTORNEY RECOMMENDATION	Reviewed and approved application as presented. (May be subject to Attorney/Client Privilege and not available under FOIA)
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	

****Spectrum Lease Agreement****

Frequently Asked Questions

Do we need to complete a spectrum lease agreement if we do not use a FlexNet system?

Yes. It is not only FlexNet that requires an FCC lease. Any radio frequency (spectrum) used by our reading systems, including Touch-read and Radio-read systems, must have a spectrum lease on file with the FCC.

Is there any additional cost associated with the spectrum lease?

No. There is no additional cost to you for the spectrum lease. Any amount allocated to the spectrum lease is paid from the ongoing support already being paid by you.

Do I have to complete this spectrum lease agreement annually?

No. The spectrum lease agreement needs completion one time only. So long as the spectrum is being utilized for Sensus equipment, Sensus will renew the lease indefinitely on your behalf.

When does the lease expire?

There is no definitive expiration on your end. Your lease will last as long as Sensus' license does with the FCC, provided you are still using it for Sensus equipment

What is a Customer FRN?

A Customer FRN is an FCC Registration Number. This field can be left blank if it is unknown. An FRN will be issued by the FCC when we file on your behalf for a spectrum manager lease using your Tax ID.

Which Tax ID should I provide?

The FCC needs the nine digit FEIN (Federal Employers Identification Number) to issue an FRN. A tax exempt number cannot be used.

What does "Name of Real Party in Interest" on the form mean?

A "Real Party in Interest" means the legal entity ultimately responsible for your operations. In most cases, there is no other "Real Party in Interest," in which case the box is left blank. Some examples, however, include a parent company or principle shareholder of the leasing party.

Do I need to provide Additional Contact Information (Section 2)?

Not necessarily. Additional contact information is only applicable if it differs from Section 1. If not applicable, this section may be left blank.

What is FCC Form 602 and how do I know if there is an FCC Form 602 on file?

FCC Form 602 is ownership disclosure information for wireless telecommunications services. Unless you know you have previously filed a Form 602, you can safely assume there is not one on file. The ownership disclosure information will be collected in the body of the spectrum lease agreement and Sensus will file the Form 602 on your behalf.

Who should be designated as the Individual Contact for FCC matters?

The individual contact should be someone who can answer questions from the FCC about the use of the spectrum. The Director of Public Works or similar person is typically the most appropriate.

What is needed in the Ownership Disclosure Information Section?

The names of your governing body need to be listed (i.e. each member of your board, council, committee or other governing body). Each member needs to be marked yes or no in the "US Citizen?" column. It is atypical, however if any member has ownership interests or operational control exceeding 10% in any entity regulated by the FCC, the box should be marked yes and an explanation must be attached defining the percentage of ownership. If there are no ownership interests exceeding 10% needing to be disclosed, the boxes should be marked no. Individual signatures of governing members are not required.

If we are not a government entity, do we need to complete the ownership disclosure section?

Yes. Every entity must complete the ownership disclosure section. You may cross out the existing designation and write the appropriate administration of each member (ie: Commission, Council, Superintendent, Manager, etc.).

Do I need to mail a hard copy?

No. Scanned or faxed agreements are perfectly acceptable and preferred for efficiency. Scanned agreements should be emailed to shannon.hearns@sensus.com or faxed to Shannon Hearn at 866-670-8821.

Where do I mail a hard copy requesting full execution and return?

Please mail to the attention of Shannon Hearn at Sensus USA, 8601 Six Forks Rd., Suite 700, Raleigh, NC 27615.

Who can I contact if I need help completing the forms?

Shannon Hearn is more than happy to answer questions and assist in completing the forms. She can be reached via phone at 702 353 9220 or email shannon.hearns@sensus.com.

Software as a Service and Spectrum Lease Agreement

between

Van Buren Charter Township~~Hartland Township~~, Michigan
("Customer")

and
Sensus USA Inc.
("Sensus")

IN WITNESS WHEREOF, the parties have caused this Software as a Service and Spectrum Lease ("Agreement") to be executed by their duly authorized representatives as of the day and year written below. The date of the last party to sign is the "Effective Date."

This Agreement shall commence on the Effective Date and continue for/until: 5 Years ("Initial Term"). At the end of the Initial Term, this Agreement shall automatically renew for an additional term of 5 years ("Renewal Term"). The "Term" shall refer to both the Initial Term and the Renewal Term.

This Agreement contains two parts: Part (1) is The FCC Notification for Spectrum Manager Lease, to be filed with the FCC by Sensus on behalf of the Customer and Part (2) is a Software as a Service and Spectrum Lease between Sensus and Customer. Together, these two parts create the Agreement.

Sensus USA Inc.

Customer: ~~Hartland Township~~ Van Buren Charter Township,
Michigan

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

Contents of this Agreement:

Part 1: Notification for Spectrum Manager Lease

Part 2: Agreement

Exhibit A Software

Exhibit B Technical Support

Part 1: Notification for Spectrum Manager Lease

In order for Sensus to apply to the FCC on the Customer's behalf for a spectrum manager lease, Customer must complete the information below in boxes one (1) through ten (10) and certify via authorized signature. Customer's signature will indicate that Customer authorizes Sensus to file the spectrum manager lease notification on FCC Form 608 with the Customer as spectrum Lessee, and if Customer does not already have one, ownership disclosure information on FCC Form 602.

1.

Customer/Lessee Name:		
Attention To:		Name of Real Party in Interest:
Street Address:		City:
State:	Zip:	Phone:
Fax:	Email:	

Is Customer contact information same as above? ☐ Yes ☐ No (If No, complete box 2 below)

2.

Additional Customer/Lessee Contact Information

Company Name:		
Attention To:		
Street Address:		City:
State:	Zip:	Phone:
Fax:	Email:	

3.

Customer/Lessee is a(n) (Select one): <input type="checkbox"/> Individual <input type="checkbox"/> Unincorporated Association <input type="checkbox"/> Trust <input type="checkbox"/> Government Entity <input type="checkbox"/> Corporation <input type="checkbox"/> Limited Liability Company <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Limited Liability Partnership <input type="checkbox"/> Consortium <input type="checkbox"/> Other _____	
---	--

4.

FCC Form 602: FCC File Number of Customer's Form 602 Ownership Information: _____. If Customer has not filed a Form 602, Sensus will file one for Customer. Please complete questions 5, 6, and 7 below if Customer does <u>not</u> have a Form 602 on file. Customer must complete items 8, 9 and 10 irrespective of whether Customer has an ownership report on file.
--

5.

Customer Tax ID:

6.

Individual Contact For FCC Matters

Please designate one individual (the Director of Public Works or similar person) who is responsible to the FCC for the operation of the FlexNet radio system.	
Name	
Title:	
Email:	Phone:

7.

Please list the names of the Board President and all Board Members below, as well as verify citizenship and ownership interests in any entity regulated by the FCC. Such ownership must be disclosed where a board member member owns 10% or more, directly or indirectly, or has operating control of any entity subject to FCC regulation. If any answer to Ownership question is Yes, or any answer to Citizenship question is No, provide an attachment with further explanation.		
	US Citizen?	Ownership Disclosure?
Board President:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board Member:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

8.

Alien Ownership Questions (if the answer is Yes, provide an attachment explaining the circumstances)

1) Is the Customer/Lessee a foreign government or the representative of any foreign government?	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

9.

Basic Qualification Information

1) Has the Customer or any party to this application had any FCC station authorization, license, or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license or construction permit denied by the Commission?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2) Has the Customer or any party to this filing, or any party directly or indirectly controlling the Customer or any party to this filing ever been convicted of a felony by any state or federal court?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) Has any court finally adjudged the Customer or any party directly or indirectly controlling the Customer guilty of unlawfully monopolizing or attempting to unlawfully monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition?	<input type="checkbox"/> Yes <input type="checkbox"/> No

10.

Customer/Lessee Certification Statements

1) The Customer/Lessee agrees that the Lease is not a sale or transfer of the license itself.	<input type="checkbox"/> Yes
2) The Customer/Lessee acknowledges that it is required to comply with the Commission's Rules and Regulations and other applicable law at all times, and if the Customer/Lessee fails to so comply, the Lease may be revoked, cancelled, or terminated by either the Licensee or the Commission.	<input type="checkbox"/> Yes
3) The Customer/Lessee certifies that neither it nor any other party to the Application/Notification is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C § 862, because of a conviction for possession or distribution of a controlled substance (See Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.)	<input type="checkbox"/> Yes
4) The Customer/Lessee hereby accepts Commission oversight and enforcement consistent with the license and lease authorization. The Lessee acknowledges that it must cooperate fully with any investigation or inquiry conducted either by the Commission or the Licensee, allow the Commission or the Licensee to conduct on-site inspections of transmission facilities, and suspend operations at the direction of the Commission or the Licensee and to the extent that such suspension of operation would be consistent with applicable Commission policies.	<input type="checkbox"/> Yes
5) The Customer/Lessee acknowledges that in the event an authorization held by a Licensee that has associated with it a spectrum leasing arrangement that is the subject of this filing is revoked, cancelled, terminated, or otherwise ceases to be in effect, the Customer/Lessee will have no continuing authority to use the leased spectrum and will be required to terminate its operations no later than the date on which the Licensee ceases to have any authority to operate under the license, unless otherwise authorized by the Commission.	<input type="checkbox"/> Yes
6) The Customer/Lessee agrees the Lease shall not be assigned to any entity that is not eligible or qualified to enter into a spectrum leasing arrangement under the Commission's Rules and Regulations.	<input type="checkbox"/> Yes
7) The Customer/Lessee waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by spectrum lease or otherwise.	<input type="checkbox"/> Yes
8) The Customer/Lessee certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.	<input type="checkbox"/> Yes

The Customer/Lessee certifies that all of its statements made in this Application/Notification and in the schedules, exhibits, attachments, or documents incorporated by reference are material, are part of this Application/Notification, and are true, complete, correct, and made in good faith. The Customer/Lessee shall notify Sensus in writing in the event any information supplied on this form changes.

Van Buren Charter Township, Michigan			
By:		Title:	
Name:		Date:	
FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.			
WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)) AND/OR FORFEITURE (U.S. Code Title 47, Section 503).			

Part 2: Agreement

1. General

- A. **Agreement Generally.** The scope of this Agreement includes usage terms for Sensus' hosted Software solution, leased spectrum, technical support, and supporting terms and conditions for an advanced metering infrastructure solution that Customer will purchase from Sensus' authorized distributor. Customer is not paying Sensus directly for the services provided by Sensus under the Agreement; rather, Customer shall pay Sensus' authorized distributor pursuant to a separate agreement between Customer and such authorized distributor.

2. Software.

- A. **Software as a Service (SaaS).** Sensus shall provide Customer with Software as a Service, as defined in Exhibit A, only so long as Customer is current in its payments for such services.
- B. **UCITA.** To the maximum extent permitted by law, the Parties agree that the Uniform Computer Information Transaction Act as enacted by any state shall not apply, in whole or in part, to this Agreement.

3. Spectrum

- A. **Definitions in this Section 3.** In this Section 3 only, "Sensus" shall mean Sensus USA Inc. and its wholly owned subsidiary, Sensus Spectrum LLC.
- B. **Spectrum Lease.** Sensus hereby grants to Customer, and Customer accepts, a spectrum manager lease ("Spectrum Lease") over the frequencies of certain FCC license(s) ("FCC License") solely within Customer's Service Territory. (The frequencies of the FCC License within Customer's geographic Service Territory are called the "Leased Spectrum"). Customer shall pay the Ongoing Fees for use of the Leased Spectrum.
- C. **FCC Forms.** At the Federal Communications Commission ("FCC"), Sensus will; (1) obtain an FCC Registration Number ("FRN") for Customer; (2) submit on behalf of Customer the FCC Form 602 Ownership Disclosure Information if Customer has not already done so; and (3) file a FCC Form 608, notification/application for long-term spectrum manager lease. This Lease becomes effective when the FCC accepts the FCC Form 608.
- D. **Lease Application.** In order to complete the FCC lease application, Customer will promptly:
- Complete and sign the representations in Part 1 of this Agreement such that Customer demonstrates it qualifies for a spectrum lease under FCC rules. Customer's signature will indicate that Customer authorizes Sensus to; (1) obtain an FRN on behalf of Customer; (2) submit the FCC Form 602 Ownership Disclosure Information on behalf of Customer if Customer has not already done so; and (3) file the spectrum manager lease notification on FCC Form 608 with the Customer as spectrum lessee.
 - Give Sensus the coordinates of the boundaries of Customer's Service Territory or, alternatively, approve Sensus' estimation of the same.
 - If Customer has not already done so; Customer hereby authorizes Sensus to apply on Customer's behalf and obtain for Customer a Federal Registration Number (FRN, the FCC's unique identifier for each licensee) and shall supply Sensus with Customer's Taxpayer Identification Number ("TIN").
 - Provide any other information or other cooperation reasonably necessary for the Parties to perform as set forth herein.
- E. **Permitted Use of Spectrum Lease and Equipment.** Customer may transmit or receive over the Leased Spectrum only in the Service Territory and only using FlexNet equipment manufactured by Sensus and used in accordance with Sensus' specifications. Customer may use the Leased Spectrum only to read and direct Field Devices or any other operation approved by Sensus in writing. Without limiting the foregoing, Customer is prohibited from reselling, subleasing or sublicensing the FlexNet Equipment and Leased Spectrum, and from transmitting voice communications over the Leased Spectrum. For each piece of RF Field Equipment used by Customer, Customer shall affix a Sensus-supplied label to the exterior of the RF Field Equipment cabinet or other appropriate visible place to indicate that RF operation is conducted under authority of FCC License(s) issued to Sensus.
- F. **Term of Spectrum Lease.** Unless terminated earlier (because, for example, Customer stops using the FlexNet equipment or because this Agreement terminates or expires for any reason), this Spectrum Lease will have the same term as the FCC license. If Customer is operating in compliance with this Agreement and is current on any payments owed to Sensus, when the FCC License renews, the Parties will apply to the FCC to renew this Spectrum Lease.
- G. **Termination of Spectrum Lease.** The Spectrum Lease will terminate: (a) two months after Customer stops transmitting with FlexNet equipment manufactured by Sensus; (b) upon termination, revocation or expiration of the FCC License; (c) upon Customer's breach of this Agreement; or (d) upon termination or expiration of this Agreement for any reason.
- H. **FCC Compliance.** The following FCC requirements apply
- Pursuant to 47 CFR 1.9040(a);
 - Customer must comply at all times with applicable FCC rules. This Agreement may be revoked by Sensus or the FCC if Customer fails to so comply;
 - If the FCC License is terminated, Customer has no continuing right to use the Leased Spectrum unless otherwise authorized by the FCC;
 - This Agreement is not an assignment, sale or other transfer of the FCC License;
 - This Agreement may not be assigned except upon written consent of Sensus, which consent may be withheld in its discretion; and
 - In any event, Sensus will not consent to an assignment that does not satisfy FCC rules.
 - Referencing 47 CFR 1.9010, Sensus retains *de jure* and *de facto* control over the applicable radio facilities, including that;
 - Sensus will be responsible for Customer's compliance with FCC policies and rules. Sensus is responsible for engineering the FlexNet equipment and accompanying software and other programs to comply with FCC rules. Customer will operate the FlexNet equipment subject to Sensus' supervision and control and solely in accordance with Sensus' specifications. Sensus retains the right to inspect Customer's radio operations hereunder and to terminate this Agreement or take any other necessary steps to resolve a violation of FCC rules, including to order Customer to cease transmission. Sensus will act as spectrum manager in assigning spectrum under the FCC License so as to avoid any harmful interference or other violation of FCC rules. Sensus will be responsible for resolving any interference complaints or other FCC rule violations that may arise; and
 - Sensus will file any necessary FCC forms or applications and Customer agrees to reasonably assist Sensus with such filing by providing any necessary information or other cooperation. Sensus will otherwise interact with the FCC with respect to this Agreement, the FCC License or FlexNet equipment.
 - Customer must continue operations on the spectrum during the Term of this Agreement. If Customer stops operations for any period of time, Customer must notify Sensus by sending an email to legal@xyleminc.com. Customer may not pause or discontinue operations for more than 180 days.
- I. **Interference.** Customer agrees to report to Sensus promptly, and in no event later than 72 hours afterward, any incident related to the Leased Spectrum, including where Customer experiences harmful interference, receives a complaint or other notice of having caused harmful interference, or receives any type of communication from the FCC or other government agency regarding radio transmission.

4. Equipment.

- A. **Purchase of Equipment.** Customer shall purchase all Field Devices, RF Field Equipment, and other goods (collectively, "Equipment") from Sensus' authorized distributor pursuant to the terms and conditions (including any warranties on such Equipment) agreed by Customer and Sensus' authorized distributor. This

Agreement shall not affect any terms and conditions, including any warranty terms, agreed by Customer and Sensus' authorized distributor. If Customer elects to purchase any equipment or services directly from Sensus, or if Customer pays any fees or other costs to Sensus, then Sensus' Terms of Sale shall apply. The "Terms of Sale" are available at: <https://www.sensus.com/itc>, or 1-800-METER-IT

- B. **THERE ARE NO WARRANTIES IN THIS AGREEMENT, EXPRESS OR IMPLIED. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS, WARRANTIES AND/OR CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS AGREEMENT, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.**

5. **Services.**

- A. **Installation of Equipment.** Installation services for Field Devices, other goods, and RF Field Equipment will be as agreed between the Customer and Sensus' authorized distributor. Sensus will not provide installation services pursuant to this Agreement
- B. **Technical Support.** Sensus shall provide Customer the technical support set forth in Exhibit B.
- C. **Project Management.** Sensus' authorized distributor will provide project management services to Customer. Any project management of the FlexNet System provided by Sensus shall be subject to a separate agreement which describes the scope and pricing for such work.
- D. **Training.** Sensus' authorized distributor will provide Customer with training on the use of the FlexNet System. Any training provided by Sensus shall be subject to a separate agreement which describes the scope and pricing for such work.
- E. **IT Systems Integration Services.** Except as may otherwise be provided herein, integration of the Software into Customer's new or existing internal IT systems is not included in this Agreement. Any integration work shall be subject to a separate agreement which describes the scope and pricing for such work.

6. **General Terms and Conditions.**

- A. **Infringement Indemnity.** Sensus shall indemnify and hold harmless Customer from and against any judgment by a court of competent jurisdiction or settlement reached from any litigation instituted against Customer in the United States by a third party which alleges that the FlexNet System provided hereunder infringes upon the patents or copyrights of such third party, provided that Sensus shall have the right to select counsel in such proceedings and control such proceedings. Notwithstanding the foregoing, Sensus shall have no liability under this indemnity unless Customer cooperates with and assists Sensus in any such proceedings and gives Sensus written notice of any claim hereunder within fourteen (14) days of receiving it. Further, Sensus shall have no liability hereunder if such claim is related to; (i) any change, modification or alteration made to the FlexNet System by Customer or a third party, (ii) use of the FlexNet System in combination with any goods or services not provided by Sensus hereunder, (iii) Customer's failure to use the most recent version of the Software or to otherwise take any corrective action as reasonably directed by Sensus, (iv) compliance by Sensus with any designs, specifications or instructions provided by Customer or compliance by Sensus with an industry standard, or (v) any use of the FlexNet System other than for the Permitted Use. In the event the FlexNet System is adjudicated to infringe a patent or copyright of a third party and its use is enjoined, or, if in the reasonable opinion of Sensus, the FlexNet System is likely to become the subject of an infringement claim, Sensus, at its sole discretion and expense, may; (i) procure for Customer the right to continue using the FlexNet System or (ii) modify or replace the FlexNet System so that it becomes non-infringing. **THIS SECTION STATES CUSTOMER'S SOLE AND EXCLUSIVE REMEDY AND SENSUS' ENTIRE LIABILITY FOR ANY CLAIM OF INFRINGEMENT.**
- B. **Limitation of Liability.** Sensus' aggregate liability in any and all causes of action arising under, out of or in relation to this Agreement, its negotiation, performance, breach or termination (collectively "Causes of Action") shall not exceed the greater of; (a) the total amount paid by Customer directly to Sensus under this Agreement; or (b) ten thousand US dollars (USD 10,000.00). This is so whether the Causes of Action are in tort, including, without limitation, negligence or strict liability, in contract, under statute or otherwise. As separate and independent limitations on liability, Sensus' liability shall be limited to direct damages. Sensus shall not be liable for; (i) any indirect, incidental, special or consequential damages; nor (ii) any revenue or profits lost by Customer or its Affiliates from any End User(s), irrespective whether such lost revenue or profits is categorized as direct damages or otherwise; nor (iii) any In/Out Costs; nor (v) damages arising from maincase or bottom plate breakage caused by freezing temperatures, water hammer conditions, or excessive water pressure. The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.
- C. **Termination.** Either party may terminate this Agreement earlier if the other party commits a material breach of this Agreement and such material breach is not cured within forty-five (45) days of written notice by the other party. Upon any expiration or termination of this Agreement, Sensus' and Customer's obligations hereunder shall cease and the software as a service and Spectrum Lease shall immediately cease.
- D. **Force Majeure.** If either party becomes unable, either wholly or in part, by an event of Force Majeure, to fulfill its obligations under this Agreement, the obligations affected by the event of Force Majeure will be suspended during the continuance of that inability. The party affected by the force majeure will take reasonable steps to mitigate the Force Majeure.
- E. **Intellectual Property Rights.**
- i. **Software and Materials.** No Intellectual Property is assigned to Customer hereunder. Excluding Customer Data, Sensus shall own or continue to own all right, title, and interest in and to the Intellectual Property associated with the Software and related documentation, including any derivations and/or derivative works (the "Sensus IP"). To the extent, if any, that any ownership interest in and to such Sensus IP does not automatically vest in Sensus by virtue of this Agreement or otherwise, and instead vests in Customer, Customer agrees to grant and assign and hereby does grant and assign to Sensus all right, title, and interest that Customer may have in and to such Sensus IP. Customer agrees not to reverse engineer any Sensus Products purchased or provided hereunder.
- ii. **Customer Data.** Notwithstanding the prior paragraph, as between Customer and Sensus, Customer remains the owner of all right, title or interest in or to any Customer Data. "Customer Data" means solely usage data collected by the Field Devices. To avoid doubt, Customer Data does not include non-End User usage data collected by the Field Devices, Software, or FlexNet System, such as network and equipment status information or the like.
- iii. **Consent to Use of Customer Data.** Customer hereby irrevocably grants to Sensus a royalty-free, non-exclusive, irrevocable right and license to access, store, and use such Customer Data and any other data or information provided to Sensus, to (1) provide the Service; (2) analyze and improve the Service; (3) analyze and improve any Sensus equipment or software; or (4) for any other internal use. As used herein, "Service" means Sensus' obligations under this Agreement.
- iv. **Access to Customer Data.** Within 45 days of Customer's written request, Sensus will provide Customer a copy of the previous 24 months CMEP interval file and deliver the file to a drop location specified by Customer.
- F. **Data Privacy.** Customer acknowledges that Sensus and its Affiliates (collectively, "Xylem") will collect and process personal data for the purposes outlined in this Agreement. Xylem's data privacy policy is available at <https://www.xylem.com/en-us/support/privacy/>. Customer acknowledges that it has read and understood Xylem's privacy policy and agrees to the use of personal data outlined therein. The collection and use of personal data by Customer is Customer's responsibility.

- G. **Confidentiality.** Except as may be required under applicable law, court order, or regulation, or to the extent required to perform and enforce this Agreement, both parties shall (and shall cause their employees and contractors to) keep all Confidential Information strictly confidential and shall not disclose it to any third party. The Confidential Information may be transmitted orally, in writing, electronically or otherwise observed by either party. Notwithstanding the foregoing, "Confidential Information" shall not include; (i) any information that is in the public domain other than due to Recipient's breach of this Agreement; (ii) any information in the possession of the Recipient without restriction prior to disclosure by the Discloser; or (iii) any information independently developed by the Recipient without reliance on the information disclosed hereunder by the Discloser. "Discloser" means either party that discloses Confidential Information, and "Recipient" means either party that receives it.
- H. **Compliance with Laws.** Customer shall comply with all applicable country, federal, state, and local laws and regulations, as set forth at the time of acceptance and as may be amended, changed, or supplemented. Customer shall not take any action, or permit the taking of any action by a third party, which may render Sensus liable for a violation of applicable laws.
- i. **Export Control Laws.** Customer shall; (i) comply with all applicable U.S. and local laws and regulations governing the use, export, import, re-export, and transfer of products, technology, and services; and (ii) obtain all required authorizations, permits, and licenses. Customer shall immediately notify Sensus, and immediately cease all activities with regards to the applicable transaction, if the Customer knows or has a reasonable suspicion that the equipment, software, or services provided hereunder may be directed to countries in violation of any export control laws. By ordering equipment, software or services, Customer certifies that it is not on any U.S. government export exclusion list.
- ii. **Anti-Corruption Laws.** Customer shall comply with the United States Foreign Corrupt Practices Act (FCPA), 15 U.S.C. §§ 78dd-1, et seq.; laws and regulations implementing the OECD's Convention on Combating Bribery of Foreign Public Officials in International Business Transactions; the U.N. Convention Against Corruption; the Inter-American Convention Against Corruption; and any other applicable laws and regulations relating to anti-corruption in the Customer's country or any country where performance of this Agreement, or delivery or use of equipment, software or services will occur.
- I. **Non-Waiver of Rights.** A waiver by either party of any breach of this Agreement or the failure or delay of either party to enforce any of the articles or other provisions of this Agreement will not in any way affect, limit or waive that party's right to enforce and compel strict compliance with the same or other articles or provisions.
- J. **Assignment and Sub-contracting.** Either party may assign, transfer or delegate this Agreement without requiring the other party's consent; (i) to an Affiliate; (ii) as part of a merger; or (iii) to a purchaser of all or substantially all of its assets. Apart from the foregoing, neither party may assign, transfer or delegate this Agreement without the prior written consent of the other, which consent shall not be unreasonably withheld. Furthermore, Customer acknowledges Sensus may use subcontractors to perform RF Field Equipment installation, the systems integration work (if applicable), or project management (if applicable), without requiring Customer's consent.
- K. **Amendments.** No alteration, amendment, or other modification shall be binding unless in writing and signed by both Customer and by a vice president (or higher) of Sensus.
- L. **Governing Law and Dispute Resolution.** This Agreement shall be governed by, construed and enforced in accordance with the laws of the State of Delaware. Any and all disputes arising under, out of, or in relation to this Agreement, its negotiation, performance or termination ("Disputes") shall first be resolved by mediation between the Parties. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE PARTIES AGREE TO A BENCH TRIAL AND THAT THERE SHALL BE NO JURY IN ANY DISPUTES.
- M. **Acknowledgement of Events.** The Parties acknowledge and agree that the global COVID-19 pandemic ("COVID-19") is ongoing, dynamic, unpredictable, and as such may impact the ability of Sensus to meet its obligations under this Agreement. The Parties agree that, for so long as there is an impact of COVID-19 on Sensus' performance, all performance efforts by Sensus will be on a reasonable efforts basis only and Sensus shall not be responsible for failure to meet its obligations, to the extent that it is precluded from doing so as a result of COVID-19. The Parties shall work, in good faith, to make any reasonable adjustments that may be required as a result of COVID-19.
- N. **Survival.** The provisions of this Agreement that are applicable to circumstances arising after its termination or expiration shall survive such termination or expiration.
- O. **Severability.** In the event any provision of this Agreement is held to be void, unlawful or otherwise unenforceable, that provision will be severed from the remainder of the Agreement and replaced automatically by a provision containing terms as nearly like the void, unlawful, or unenforceable provision as possible; and the Agreement, as so modified, will continue to be in full force and effect.
- P. **Four Corners.** This written Agreement, including all of its exhibits, represents the entire understanding between and obligations of the parties and supersedes all prior understandings, agreements, negotiations, and proposals, whether written or oral, formal or informal between the parties. Any additional writings shall not modify any limitations or remedies provided in the Agreement. There are no other terms or conditions, oral, written, electronic or otherwise. There are no implied obligations. All obligations are specifically set forth in this Agreement. Further, there are no representations that induced this Agreement that are not included in it. The ONLY operative provisions are set forth in writing in this Agreement. Without limiting the generality of the foregoing, no purchase order placed by or on behalf of Customer shall alter any of the terms of this Agreement. The parties agree that such documents are for administrative purposes only, even if they have terms and conditions printed on them and even if and when they are accepted and/or processed by Sensus. Any goods, software or services delivered or provided in anticipation of this Agreement (for e.g., as part of a pilot or because this Agreement has not yet been signed but the parties have begun the deployment) under purchase orders placed prior to the execution of this Agreement are governed by this Agreement upon its execution and it replaces and supersedes any such purchase orders.
- Q. **Counterparts.** This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Additionally, this Agreement may be executed by facsimile or electronic copies, all of which shall be considered an original for all purposes.
7. **Definitions.** As used in this Agreement, the following terms shall have the following meanings:
- A. **"Affiliate"** of a party means any other entity controlling, controlled by, or under common control with such party, where "control" of an entity means the ownership, directly or indirectly, of 50% or more of either; (i) the shares or other equity in such entity; or (ii) the voting rights in such entity.
- B. **"Confidential Information"** means any and all non-public information of either party, including the terms of this agreement, all technical information about either party's products or services, pricing information, marketing and marketing plans, Customer's End Users' data, FlexNet System performance, FlexNet System architecture and design, FlexNet System software, other business and financial information of either party, and all trade secrets of either party.
- C. **"End User"** means any end user of electricity, water, and/or gas (as applicable) that pays Customer for the consumption of electricity, water, and/or gas, as applicable.
- D. **"Field Devices"** means the SmartPoint Modules.
- E. **"FlexNet Base Station"** identifies the Sensus manufactured device consisting of one transceiver, to be located on a tower that receives readings from the SmartPoint Modules (either directly or via an R100 unit) by radio frequency and passes those readings to the RNI by TCP/IP backhaul communication. For clarity, FlexNet Base Stations include Metro Base Stations.
- F. **"FlexNet System"** is comprised of the SmartPoint Modules, RF Field Equipment, Server Hardware, software licenses, Spectrum Lease, and other equipment provided to Customer hereunder. The FlexNet System only includes the foregoing, as provided by Sensus. The FlexNet System does not include goods, equipment, software, licenses or rights provided by a third party or parties to this Agreement.
- G. **"Force Majeure"** means an event beyond a party's reasonable control, including, without limitation, acts of God, hurricane, flood, volcano, tsunami, tornado, storm, tempest, mudslide, vandalism, illegal or unauthorized radio frequency interference, strikes, lockouts, or other industrial disturbances, unavailability of component parts of any goods

provided hereunder, acts of public enemies, wars, blockades, insurrections, riots, epidemics, earthquakes, fires, restraints or prohibitions by any court, board, department, commission or agency of the United States or any States, any arrests and restraints, civil disturbances and explosion.

- H. **"Hosted Software"** means those items listed as an Application in Exhibit A.
- I. **"In/Out Costs"** means any costs and expenses incurred by Customer in transporting goods between its warehouse and its End User's premises and any costs and expenses incurred by Customer in installing, uninstalling and removing goods.
- J. **"Intellectual Property"** means patents and patent applications, inventions (whether patentable or not), trademarks, service marks, trade dress, copyrights, trade secrets, know-how, data rights, specifications, drawings, designs, maskwork rights, moral rights, author's rights, and other intellectual property rights, including any derivations and/or derivative works, as may exist now or hereafter come into existence, and all renewals and extensions thereof, regardless of whether any of such rights arise under the laws of the United States or of any other state, country or jurisdiction, any registrations or applications thereof, and all goodwill pertinent thereto.
- K. **"LCM"** identifies the load control modules.
- L. **"Ongoing Fee"** means the annual or monthly fees, as applicable, to be paid by Customer to Sensus' authorized distributor during the Term of this Agreement.
- M. **"Patches"** means patches or other maintenance releases of the Software that correct processing errors and other faults and defects found previous versions of the Software. For clarity, Patches are not Updates or Upgrades.
- N. **"Permitted Use"** means only for reading and analyzing data from Customer's Field Devices in the Service Territory. The Permitted Use does not include reading third devices not provided by Sensus or reading Field Devices outside the Service Territory.
- O. **"R100 Unit"** identifies the Sensus standalone, mounted transceiver that takes the radio frequency readings from the SmartPoint Modules and relays them by radio frequency to the relevant FlexNet Base Station or directly to the RNI by TCP/IP backhaul communication, as the case may be.
- P. **"Release"** means both Updates and Upgrades.
- Q. **"Remote Transceiver"** identifies the Sensus standalone, mounted relay device that takes the radio frequency readings from the SmartPoint Modules and relays them directly to the RNI by TCP/IP backhaul communication.
- R. **"RF Field Equipment"** means, collectively, FlexNet Base Stations, R100 units (if any) and Remote Transceivers (if any).
- S. **"RNI"** identifies the regional network interfaces consisting of hardware and software used to gather, store, and report data collected by the FlexNet Base Stations from the SmartPoint Modules. The RNI hardware specifications will be provided by Sensus upon written request from Customer.
- T. **"RNI Software"** identifies the Sensus proprietary software used in the RNI and any Patches, Updates, and Upgrades that are provided to Customer pursuant to the terms of this Agreement.
- U. **"Service Territory"** identifies the geographic area where Customer utilizes Sensus equipment to provide services to End Users as of the Effective Date. This area will be described on the propagation study in the parties' Spectrum Lease filing with the FCC.
- V. **"Server Hardware"** means the RNI hardware.
- W. **"SmartPoint™ Modules"** identifies the Sensus transmission devices installed on devices such as meters, distribution automation equipment and demand/response devices located at Customer's End Users' premises that communicate with the relevant devices and transmit those communications by radio frequency to the relevant piece of RF Field Equipment.
- X. **"Software"** means all the Sensus proprietary software provided pursuant to this Agreement, and any Patches, Updates, and Upgrades that are provided to Customer pursuant to the terms of this Agreement. The Software does not include any third party software.
- Y. **"Updates"** means releases of the Software that constitute a minor improvement in functionality.
- Z. **"Upgrades"** means releases of the Software which constitute a significant improvement in functionality or architecture of the Software.
- AA. **"WAN Backhaul"** means the communication link between FlexNet Base Stations and Remote Transceivers and RNI.

Exhibit A
Software

Software as a Service

1. Description of Services.

This exhibit contains the details of the Software as a Service that Sensus shall provide to Customer if both; (i) pricing for the application of Software as a Service has been provided to the Customer; and (ii) the Customer is current in its payments to Sensus' authorized distributor for such application of Software as a Service.

A. Software as a Service Generally.

Software as a Service is a managed service in which Sensus will be responsible for the day-to-day monitoring, maintenance, management, and supporting of Customer's software applications. In a Software as a Service solution, Sensus owns all components of the solution (server hardware, storage, data center, network equipment, Sensus software, and all third-party software) required to run and operate the application. These software applications consist of the following (each an "Application"):

- Regional Network Interface (RNI) Software
- Sensus Analytics
 - Enhanced Package

The managed application systems consist of the hardware, Sensus Software, and other third-party software that is required to operate the software applications. Each Application will have a production, and Disaster Recovery (as described below) environment. Test environments are not provided unless otherwise specifically agreed by Sensus in writing. Sensus will manage the Applications by providing 24 x 7 x 365 monitoring of the availability and performance of the Applications.

B. Use of Software as a Service. Subject to the terms of this Agreement, Sensus shall make Software as a Service available to Customer to access and use solely for the Permitted Use and solely for so long as Customer is current in its payments to Sensus or its authorized distributor for Software as a Service. The Software as a Service term commences on the date that Sensus first makes Software as a Service available to Customer for use, and ends upon the earlier of: (i) the expiration or termination of the Agreement; (ii) breach by Customer of this exhibit or the Agreement; or (iii) Customer's termination of Software as a Service as set forth in paragraph (C) below.

C. Termination of an Application. Customer shall have the option at any time before the end of the Term to terminate any Application by giving Sensus one hundred twenty (120) days prior written notice. Such notice, once delivered to Sensus, is irrevocable. Should Customer elect to terminate any Application, Customer acknowledges that: (a) Customer shall pay all applicable fees, including any unpaid Software as a Service fees due in the current calendar year plus a ten percent (10%) early termination fee, where such fee is calculated based on the annual Software as a Service fee due in the current calendar year; and (b) Software as a Service for such Application shall immediately cease. If Customer elects to terminate the RNI Application in the Software as a Service environment but does not terminate the Agreement generally, then upon delivery of the notice to Sensus, Customer shall purchase the necessary (a) RNI hardware from a third party and (b) RNI software license at Sensus' then-current pricing. No portion of the Software as a Service fees shall be applied to the purchase of the RNI hardware or software license.

D. Software as a Service means only the following services:

- i. Sensus will provide the use of required hardware, located at Sensus' or a third-party's data center facility (as determined by Sensus), that is necessary to operate the Application.
- ii. Sensus will provide production and disaster recovery environments for Application.
- iii. Sensus will provide patches, updates, and upgrades to latest Sensus Hosted Software release.
- iv. Sensus will configure and manage the equipment (server hardware, routers, switches, firewalls, etc.) in the data centers:
 - (a) Network addresses and virtual private networks (VPN)
 - (b) Standard time source (NTP or GPS)
 - (c) Security access points
 - (d) Respond to relevant alarms and notifications
- v. Capacity and performance management. Sensus will:
 - (a) Monitor capacity and performance of the Application server and software applications 24x7x365 using KPI metrics, thresholds, and alerts to proactively identify any potential issues related to system capacity and/or performance (i.e. database, backspool, logs, message broker storage, etc.)
 - (b) If an issue is identified to have a potential impact to the system, Sensus will open an incident ticket and manage the ticket through resolution per Exhibit B, Technical Support.
 - (c) Manage and maintain the performance of the server and perform any change or configuration to the server, in accordance to standard configuration and change management policies and procedures.
 - (d) Manage and maintain the server storage capacity and performance of the Storage Area Network (SAN), in accordance to standard configuration and change management policies and procedures.
 - (e) Exceptions may occur to the system that require Sensus to take immediate action to maintain the system capacity and performance levels, and Sensus has authority to make changes without Customer approval as needed, in accordance to standard configuration and change management policies and procedures.
- vi. Database management. Sensus will:
 - (a) Implement the data retention plan and policy, and will provide the policy upon request.
 - (b) Monitor space and capacity requirements.
 - (c) Respond to database alarms and notifications.
 - (d) Install database software upgrades and patches.
 - (e) Perform routine database maintenance and cleanup of database to improve capacity and performance, such as rebuilding indexes, updating indexes, consistency checks, run SQL query/agent jobs, etc.
- vii. Incident and Problem Management. Sensus will:
 - (a) Proactively monitor managed systems (24x7x365) for key events and thresholds to proactively detect and identify incidents.
 - (b) Respond to incidents and problems that may occur to the Application(s).
 - (c) Maintain policies and procedures for responding to incidents and performing root cause analysis for ongoing problems.
 - (d) Correlate incidents and problems where applicable.

- (e) Sensus personnel will use the self-service portal to document and track incidents.
- (f) In the event that Sensus personnel is unable to resolve an issue, the issue will be escalated to the appropriate Subject Matter Expert (SME).
- (g) Maintain responsibility for managing incident and problems through resolution and will coordinate with Customer's personnel and/or any required third-party vendor to resolve the issue.
- (h) Provide telephone support consistent with Exhibit B, Technical Support in the case of undetected events.
- viii. Security Management. Sensus will:
 - (a) Monitor the physical and cyber security of the server and Application(s) 24x7x365 to ensure system is highly secure in accordance with NIST Security Standards.
 - (b) Perform active intrusion prevention and detection of the data center network and firewalls, and monitor logs and alerts.
 - (c) Conduct period penetration testing of the network and data center facilities.
 - (d) Conduct monthly vulnerability scanning by both internal staff and external vendors.
 - (e) Perform anti-virus and Malware patch management on all systems.
 - (f) Install updates to virus protection software and related files (including virus signature files and similar files) on all servers from the update being generally available from the anti-virus software provider.
 - (g) Respond to any potential threat found on the system and work to eliminate any virus or malware found.
 - (h) Adhere to and submit certification to NERC/CIP Cyber Security standards.
 - (i) Monitors industry regulation/standards regarding security – NERC, FERC, NIST, OpenSG, etc. through the dedicated Sensus security team.
 - (j) Provide secure web portal access (SSL) to the Application(s).
- ix. Backup and Disaster Recovery Management. Sensus will:
 - (a) Perform daily backups of data providing one (1) year of history for auditing and restoration purposes.
 - (b) Back-up and store data (on tapes or other storage media as appropriate) off-site to provide protection against disasters and to meet file recovery needs.
 - (c) Conduct incremental and full back-ups to capture data, and changes to data, on the Application(s).
 - (d) Replicate the Application(s) environments to a geographically separated data center location to provide a full disaster recovery environment for the Application production system.
 - (e) Provide disaster recovery environment and perform fail-over to Disaster Recovery environment within forty-eight (48) hours of declared event.
 - (f) Generate a report following each and any disaster measuring performance against the disaster recovery plan and identification of problem areas and plans for resolution.
 - (g) Maintain a disaster recovery plan. In the event of a disaster, Sensus shall provide the services in accordance with the disaster recovery plan.
 - (h) In the case of a disaster and loss of access to or use of the Application, Sensus would use commercially reasonable efforts per the Recovery Time Objectives (RTO) and Recovery Point Objectives (RPO) specified herein to restore operations at the same location or at a backup location within forty-eight (48) hours.
 - (i) The Application shall have a RTO of forty-eight (48) hours.
 - (j) The RPO shall be a full recovery of the Application(s), with an RPO of one (1) hours, using no more than a twenty-four (24) hour old backup. All meter-related data shall be pushed from each Base Station/TGB restoring the database to real-time minus external interfaced systems from the day prior.
 - (k) Data from external interfaced systems shall be recreated within a forty-eight (48) hour period with the assistance of Customer personnel and staff, as needed.

E. Customer Responsibilities:

- i. Coordinate and schedule any changes submitted by Sensus to the system in accordance with standard configuration and change management procedures.
- ii. Participate in all required configuration and change management procedures.
- iii. Customer will log incidents related to the managed Application with Sensus personnel via email, web portal ticket entry, or phone call.
- iv. Responsible for periodic processing of accounts or readings (i.e., billing files) for Customer's billing system for billing or other analysis purposes.
- v. Responsible for any field labor to troubleshoot any SmartPoint modules or smart meters in the field in populations that have been previously deployed and accepted.
- vi. First response labor to troubleshoot FlexNet Base Station, R100s, Remote Transceivers or other field network equipment.
- vii. Responsible for local area network configuration, management, and support.
- viii. Identify and research problems with meter reads and meter read performance.
- ix. Create and manage user accounts.
- x. Customize application configurations.
- xi. Support application users.
- xii. Investigate application operational issues (e.g., meter reads, reports, alarms, etc.).
- xiii. Respond to alarms and notifications.
- xiv. Perform firmware upgrades over-the-air, or delegate and monitor field personnel for on-site upgrades.

F. Software as a Service does not include any of the following services:

- i. Parts or labor required to repair damage to any field network equipment that is the result of a Force Majeure event.
- ii. Any integration between applications, such as Harris MeterSense, would require a Professional Services contract agreement to be scoped, submitted, and agreed in a signed writing between Sensus and all the applicable parties.

If an item is not listed in subparagraphs in Item (D) above, such item is excluded from the Software as a Service and is subject to additional pricing.

2. Further Agreements

A. System Uptime Rate.

- i. Sensus (or its contractor) shall manage and maintain the Application(s) on computers owned or controlled by Sensus (or its contractors) and shall provide Customer access to the managed Application(s) via internet or point to point connection (i.e., Managed-Access use), according to the terms below. Sensus endeavors to maintain an average System Uptime Rate equal to ninety-nine (99.0) per Month (as defined below). The System Uptime Rate, cumulative across all Applications, shall be calculated as follows:

$$\text{System Uptime Rate} = 100 \times \frac{\text{TMO} - \text{Total Non-Scheduled Downtime minutes in the Month}}{\text{TMO}}$$

ii. Calculations

- a. **Targeted Minutes of Operation** or **TMO** means total minutes cumulative across all Applications in the applicable month minus the Scheduled Downtime in the Month.
- b. **Scheduled Downtime** means the number of minutes during the Month, as measured by Sensus, in which access to any Application is scheduled to be unavailable for use by Customer due to planned system maintenance. Sensus shall provide Customer notice (via email or otherwise) at least seven (7) days in advance of commencement of the Scheduled Downtime.
- c. **Non-Scheduled Downtime** means the number of minutes during the Month, as measured by Sensus, in which access to any Application is unavailable for use by Customer due to reasons other than Scheduled Downtime or the Exceptions, as defined below (e.g., due to a need for unplanned maintenance or repair).

iii. Exceptions. Exceptions mean the following events:

- Force Majeure
- Emergency Work, as defined below; and
- Lack of Internet Availability, as described below.

- a. **Emergency Work.** In the event that Force Majeure, emergencies, dangerous conditions or other exceptional circumstances arise or continue during TMO, Sensus shall be entitled to take any actions that Sensus, in good faith, determines is necessary or advisable to prevent, remedy, mitigate, or otherwise address actual or potential harm, interruption, loss, threat, security or like concern to any of the Application(s) ("Emergency Work"). Such Emergency Work may include, but is not limited to: analysis, testing, repair, maintenance, re-setting and other servicing of the hardware, cabling, networks, software and other devices, materials and systems through which access to and/or use of the Application(s) by the Customer is made available (the "Managed Systems"). Sensus shall endeavor to provide advance notice of such Emergency Work to Customer when practicable and possible.
- b. **Lack of Internet Availability.** Sensus shall not be responsible for any deterioration of performance attributable to latencies in the public internet or point-to-point network connection operated by a third party. Customer expressly acknowledges and agrees that Sensus does not and cannot control the flow of data to or from Sensus' networks and other portions of the Internet, and that such flow depends in part on the performance of Internet services provided or controlled by third parties, and that at times, actions or inactions of such third parties can impair or disrupt data transmitted through, and/or Customer's connections to, the Internet or point-to-point data connection (or portions thereof). Although Sensus will use commercially reasonable efforts to take actions Sensus may deem appropriate to mitigate the effects of any such events, Sensus cannot guarantee that such events will not occur. Accordingly, Sensus disclaims any and all liability resulting from or relating to such events.

iv. **System Availability.** For each month that the System Uptime Rates for the production RNI falls below 99.0%, Sensus will issue Customer the following Service Level Credits:

System Uptime Rate per calendar month	Service Level Credit
Less than 99.0% but at least 97.5%	5% of the monthly RNI SaaS Fees in which the service level default occurred (Note: SaaS fees are pre-paid annually and for purposes of SLA Credits are computed on a monthly basis.)
Less than 97.5% but at least 95.0%	10% of the monthly RNI SaaS Fees in which the service level default occurred
Less than 95.0%	20% of the monthly RNI SaaS Fees in which the service level default occurred

Service Level Credits for any single month shall not exceed 20% of the RNI SaaS Fee associated with the month in which the service level default occurred. Sensus records and data will be the sole basis for all Service Level Credit calculations and determinations, provided that such records and data must be made available to Customer for review and agreement by Customer. To receive a Service Level Credit, Customer must issue a written request no later than ten (10) days after the Service Level Credit has accrued. Sensus will apply each valid Service Level Credit to the Customer's invoice within 2 billing cycles after Sensus' receipt of Customer's request and confirmation of the failure to meet the applicable Service Level Credit. Service Level Credits will not be payable for failures to meet the System Uptime Rate caused by any Exceptions. No Service Level Credit will apply if Customer is not current in its undisputed payment obligations under the Agreement. Service Level Credits are exclusive of any applicable taxes charged to Customer or collected by Sensus. Sensus shall not refund an unused Service Level Credits or pay cash to Customer for any unused Service Level Credits. Any unused Service Level Credits at the time the Agreement terminates will be forever forfeited. THE SERVICE LEVEL CREDITS DESCRIBED IN THIS SECTION ARE THE SOLE AND EXCLUSIVE REMEDY FOR SENSUS' FAILURE TO MEET THE SYSTEM UPTIME REQUIREMENT OR ANY DEFECTIVE SAAS PERFORMANCE. IN NO EVENT SHALL THE AGGREGATE AMOUNT OF SERVICE LEVEL CREDITS IN ANY ANNUAL PERIOD EXCEED 20% OF THE ANNUAL RNI SAAS FEE.

B. **Data Center Site-Security.** Although Sensus may modify such security arrangements without consent or notice to Customer, Customer acknowledges the following are the current arrangements regarding physical access to and support of the primary hardware components of the Managed Systems:

- i. The computer room(s) in which the hardware is installed is accessible only to authorized individuals.
- ii. Power infrastructure includes one or more uninterruptible power supply (UPS) devices and diesel generators or other alternative power for back-up electrical power.
- iii. Air-conditioning facilities (for humidity and temperature controls) are provided in or for such computer room(s) and can be monitored and adjusted for humidity and temperature settings and control. Such air systems are supported by redundant, back-up and/or switch-over environmental units.
- iv. Such electrical and A/C systems are monitored on an ongoing basis and personnel are available to respond to system emergencies (if any) in real time.
- v. Dry pipe pre-action fire detection and suppression systems are provided.
- vi. Data circuits are available via multiple providers and diverse paths, giving access redundancy.

C. **Responsibilities of Customer.**

- i. Customer shall promptly pay all Software as a Service fees.
- ii. Customer may not (i) carelessly, knowingly, intentionally or maliciously threaten, disrupt, harm, abuse or interfere with the Application(s), Managed Systems or any of their functionality, performance, security or integrity, nor attempt to do so; (ii) impersonate any person or entity, including, but not limited to, Sensus, a Sensus employee or another user; or (iii) forge, falsify, disguise or otherwise manipulate any identification information associated with Customer's access to or use of the Application(s).
- iii. The provisioning, compatibility, operation, security, support, and maintenance of Customer's hardware and software ("Customer's Systems") is exclusively the responsibility of Customer. Customer is also responsible, in particular, for correctly configuring and maintaining (i) the desktop environment used by

Customer to access the Application(s) managed by Sensus; and (ii) Customer's network router and firewall, if applicable, to allow data to flow between the Customer's Systems and Sensus' Managed Systems in a secure manner via the public Internet.

- iv. Upon receiving the system administrator account from Sensus, Customer shall create username and passwords for each of Customer's authorized users and complete the applicable Sensus registration process (Authorized Users). Such usernames and passwords will allow Authorized Users to access the Application(s). Customer shall be solely responsible for maintaining the security and confidentiality of each user ID and password pair associated with Customer's account, and Sensus will not be liable for any loss, damage or liability arising from Customer's account or any user ID and password pairs associated with Customer. Customer is fully responsible for all acts and omissions that occur through the use of Customer's account and any user ID and password pairs. Customer agrees (i) not to allow anyone other than the Authorized Users to have any access to, or use of Customer's account or any user ID and password pairs at any time; (ii) to notify Sensus immediately of any actual or suspected unauthorized use of Customer's account or any of such user ID and password pairs, or any other breach or suspected breach of security, restricted use or confidentiality; and (iii) to take the Sensus-recommended steps to log out from and otherwise exit the Application(s) and Managed Systems at the end of each session. Customer agrees that Sensus shall be entitled to rely, without inquiry, on the validity of the user accessing the Application(s) application through Customer's account, account ID, usernames or passwords.
- v. Customer shall be responsible for the day-to-day operations of the Application(s) and FlexNet System. This includes, without limitation, (i) researching problems with meter reads and system performance, (ii) creating and managing user accounts, (iii) customizing application configurations, (iv) supporting application users, (v) investigating application operational issues, (vi) responding to alarms and notifications, and (vii) performing over-the-air commands (such as firmware updates or configuration changes).

D. Software Solution Components.

- i. **Description of Software Solutions.** Sensus software consists of a core communication module and a set of applications. Some applications are required to perform basic solution capabilities, other applications are optional and add additional capabilities and function to the overall solution. As Customer's business process expands and/or new Sensus offerings are made available, additional applications and functionality can dynamically be added to the solution, provided Customer purchases such additional applications.
- ii. **Regional Network Interface.** The Regional Network Interface (RNI) or Sensus head-end is the centralized intelligence of the FlexNet network; the RNI's primary objective is to transfer endpoint (such as meters) data to the Customer and the advanced feature applications. The RNI is adaptable to Customer configurations by simultaneously supporting a wide range of FlexNet enabled endpoints; including but not limited to meters (electric, water, gas), street lighting, and Home Area Network devices.
 - a. **Core Package**
 - (i) **Communication**
 1. Manages all inbound and outbound traffic to and from endpoints
 2. Outbound routing optimization
 3. Route analyzer
 4. AES256 bit encryption of radio messages
 5. Reports and metric details of network performance and troubleshooting aids
 6. Management of RF equipment (base stations and endpoint radios)
 - (ii) **Data Collection**
 1. Missing read management
 2. Management of duplicate reads
 3. 60 day temporary storage
 - (iii) **Application Integration**
 1. To Sensus Analytics applications
 2. Enable 3rd party application integration
 3. Batch CMEP file export
 4. Real-time access through MultiSpeak
 - (iv) **Endpoint Management**
 1. Gas, water, electric, lighting concurrent support
 2. Remote configuration
 3. Remote firmware updates
 4. Reports, metrics and Troubleshooting
 - (v) **User Management**
 1. Secure access
 2. Password management
 3. Definable user roles
 4. User permissions to manage access to capabilities
 - b. **Integration of RNI.** Sensus shall provide RNI integration support services to Customer only to the extent specifically provided below:
 - (i) Sensus shall meet with the representative from the Customer's system(s) targeted for integration to determine which integration method is appropriate (e.g., Multispeak, CMEP, etc.).
 1. In scope and included integration efforts: Provide the gateway URLs to the integrating system as needed, provide Customer with standard integration API documentation, validate and test that the correct Customer information is flowing into and/or out of the RNI.
 2. Out of scope and subject to additional charges: Modifications or extensions to the standard API provided by Sensus and any integration efforts not outlined above as in scope and included.
 - (ii) **Customer Responsibilities:**
 1. Provide Sensus with information about the relevant information Customer wishes to transfer and integrate with the RNI.
 2. Establish the network and security required for the two systems to reasonably communicate.
 3. Verify integration to third party system functionality is working as intended.
 - (iii) If an item is not listed in subparagraph (i) above, such item is excluded from the integration of Sensus RNI Support and is subject to additional pricing.

3. Sensus Analytics

Sensus Analytics is a cloud-based solution and data platform that allows storage and retrieval of raw reads and data from other sources for analysis, exportation, and inquiry or reporting. The platform provides applications and reporting capabilities.

A. Essential Package. The Essential Package of the Sensus Analytics Application shall consist of the following modules:

- i. Device Access
 - a. Allows search for meter details by using data imported from the billing system or the Sensus Device ID or AMI ID.
 - b. Allows a view of the meter interval or register reads.
 - c. Meter data is available to be copied, printed, or saved to certain user programs or file formats, specifically CSV, PDF, and Spreadsheet.
 - d. Allows the current and historical data to be viewed.
 - e. Allows the current usage to be compared to historical distribution averages.
 - f. Allows the user to see the meter location on a map view.
 - g. Allows notifications for an event on a single meter to be forwarded to a Customer employee.
 - h. Allows details to be viewed about a meter -- (dependent on the data integrated from other systems).
- ii. Meter insight (provides the following)
 - a. # of active meters.
 - b. # of orphaned meters with drill down to the list of meters.
 - c. # of inactive meters with usage drill down to the list of meters.
 - d. # of stale meters with drill down to the list of meters.
 - e. # of almost stale meters with drill down to the list of meters.
 - f. # of meters where no read is available with drill down to the list of meters.
 - g. # of meters with maximum threshold exceptions with drill down to the list of meters.
 - h. # of meters with minimum threshold exceptions with drill down to the list of meters.
 - i. # of unknown meters with drill down to the list of meters.
- iii. Report Access
 - a. Allows the user to see meter alarms and choose a report from a list of standard reports.
 - b. Master Route Register Reads: Shows the latest reads for all meters within specified time window.
 - c. Meter Route Intervals Reads: Allows users to inspect intervals of a single meter over a period of time.
 - d. Master Route No Readings: List all meters that are active in the system, but have not been sending reads within the specified time window.
 - e. Consumption Report: List meters' consumption based on meter readings within the specified time window.
 - f. Zero Consumption for Period: List meters whose readings do not change over a period of time.
 - g. Negative Consumption: Shows the number of occurrences and readings of negative consumption for the last 24hr, 48hr and 72hr from the entered roll up date.
 - h. High Low Exception Report: Displays meters whose reads exceed minimum or/and maximum threshold, within a time range.
 - i. Consumption vs Previous Reported Read: Compares latest reading (from RNI) with last known read received from CIS.
 - j. Consumption Exception 24 hour Report: This report shows meters that satisfy these two conditions: (1) The daily average consumptions exceed entered daily consumption threshold; (2) The number of days when daily thresholds are exceeded are greater than the entered exception per day threshold.
 - k. Endpoint Details: Shows the current state of meters that are created within the specified time range.
 - l. Orphaned Meters: List meters that are marked as 'orphaned', which are created as of entered Created as of parameter.
 - m. Billing Request Mismatch: Displays meters in a billing request that have different AMR id with the ones sent by RNI. It also shows AMR id in billing request that have different meter id in the RNI. Users must enter which billing request file prior to running the report.
 - n. All Alarms Report: List all alarms occurred during a time window. Users can select which alarm to show.
- iv. Billing Access
 - a. Initiate the creation of billing export files formatted to the import needs of the billing system.
 - b. Receive billing request files from the billing system to identify what meters to include in the billing export file in the case where billing request file option is used.
 - c. Provides a repository of past billing files that were either used for billing preparation or actually sent to the billing system.
 - d. Will store created billing files for a period of three years unless otherwise denoted.
 - e. The system will allow creation of test files before export to the billing system.
- v. Billing Adaptor
 - a. The underlying configurator and tools mapping the extraction of billing data to enable integration to the utility's billing system.
- vi. Data Store
 - a. Allows storage of meter reading data including Intervals, Registers, and Alarms to be stored.
 - b. Stored data is available online for reports and analysis.
 - c. Data will be retained for 3 years. Additional duration can be purchased.

B. Enhanced Package. The Enhanced Package shall consist of the modules listed above in the Essential Package, as well as the following additional modules:

- i. Alarm insight
 - a. Allows the user to summarize and filter alarms by a date range.
 - b. Allows the user to review all alarm types on a single screen.
 - c. The user can filter out the alarms not wanted on the screen.
 - d. Alarm totals can be visualized.
 - e. Adds a view of trending alarms over time.
 - f. Click to drill down on an alarm to gain more information on specific events.
 - g. Click to analyze a specific event on a particular device.
- ii. Alert Manager
 - a. Allows creation of alert groups who will be notified when an alarm occurs.
 - b. Users can manage alert groups by adding and removing group members.
 - c. Allows selection of notification method for how end users in the group will be notified; email or SMS (text message).

- d. Allows creation of an alert from the available system events from smart points and assign to a group.
- e. Monitors the systems meters for events. When an event is triggered, all users in the group will be notified.

C. Integration of Sensus Analytics. Sensus shall provide integration support services to Customer only to the extent specifically provided below:

- i. Sensus shall provide Customer with a simple flat file specification known as VFlex for the integration of the Customer's back office system to the Sensus Analytics modules. The VFlex shall contain the following types of information: Device ids, end users in the system, end user status, end user account information, end user name, and other end user details. This flat file may be delimited or fixed width. Customer shall produce this file and transmit it to the FTP location designated by Sensus. When sent to the Sensus FTP servers, this file exchange will enable the system to become operational with the Customer's systems. Customer shall produce this file and transmit it to the FTP location designated by Sensus. Sensus will provide reasonable support to explain to Customer the required vs. optional fields that are in the specification, testing and validation of the file format and content.
- ii. In scope and included integration efforts: kick-off meeting to engage all required parties, mapping the Customer's fields to the VFlex specification, validation of expected output, and a two (2) hour system review of Sensus Analytics application and integration with the Customer's system (conducted remotely).
- iii. Out of scope and subject to additional charges will be the transformation of data where business logic including code must be written to modify the field content or format of the data to meet the VFlex specification.
- iv. Sensus' integration services consist of four (4) hours of assistance (remote or on-site, as determined by Sensus). If additional time is needed to complete the integration efforts, Sensus shall invoice Customer for additional fees on an actual time and materials basis.
- v. If an item is not listed in subparagraphs (i) or (ii) above, such item is excluded from the integration of Sensus Analytics Support and is subject to additional pricing.
- vi. **Data Import.** The Sensus Analytics Application contains adapters for the import of data from: (a) Customer's FlexNet System; and/or (b) AutoRead application for handheld and drive by systems, as applicable.
- vii. **Customer Acknowledgements.**
 - a. Customer acknowledges that the Sensus Analytics Application provides up to fifty (50) user logins for Customer's use.
 - b. Customer acknowledges and agrees the Sensus Analytics Application is based upon the actual number of End Users within Customer's Service Territory. Pricing may increase if Customer's Service Territory or actual number of End Users expands.
 - c. Customer acknowledges that all data related to the Sensus Analytics Applications is geographically hosted within the United States of America. Customer accepts the geographic location of such hosting, and indemnifies Sensus for any claims resulting therefrom.
 - d. Customer acknowledges and agrees that the Intellectual Property provisions of this Agreement apply in all respects to Customer's access to and use of the Sensus Analytics Applications.
 - e. Customer is responsible for validating the data analyzed by the Sensus Analytics Applications. Sensus makes no promises of improving Customer's operations or saving Customer money, nor is Sensus liable for any damages resulting from decisions made by Customer related to Customer's use of Sensus Analytics.

4. Third Party Software.

A. RedHat Linux. If Sensus is providing Customer with a license to use RedHat Linux Software, Customer agrees to the following:

By entering into this Agreement, Customer agrees to abide by and to be legally bound by the terms and conditions of the Red Hat End User License Agreements identified below, each of which are incorporated into this Agreement by reference and are available at the websites identified below. Please read the Red Hat End User License Agreements and incorporated references carefully.

Subscription:	End User License Agreement:
Red Hat Enterprise Linux	http://www.redhat.com/licenses/rhel_rha_eula.html
JBoss Enterprise Middleware	http://www.redhat.com/licenses/jboss_eula.html

Exhibit B Technical Support

1. Introduction

Sensus Technical Services provides utility customers with a single point of contact for Tier 1 support of technical issues as well as any coordination of additional resources required to resolve the issue. Requests that require specialized skills are to be forwarded to a senior support engineer or Technical Advisor within the team for further analysis. If Technical Services has exhausted all troubleshooting efforts for the product type, the issue will escalate to the Engineering Support Team. Occasionally, on-site troubleshooting/analysis may be required. The preferred order of on-site support is:

- a) The Customer (for assistance with the easiest and lowest time-consuming activities such as power on/power off).
- b) The local distributor.
- c) Sensus employees or contracted personnel, if required to fulfill a contract commitment.

2. Support Categories

- 2.1. General questions regarding functionality, use of product, how-to, and requests for assistance on Sensus AMR, AML, RF Network Equipment, Metering Products, Sensus Lighting Control, and Demand Response Management System (FlexNet Home).
- 2.2. Proactive reporting and resolution of problems.
- 2.3. Reactive reporting to isolate, document, and solve reported hardware/software defects.
- 2.4. Responding to service requests and product changes.
- 2.5. Addressing customer inquiries with printed or electronic documentation, examples, or additional explanation/clarification.

3. Support Hours

- 3.1. Standard Support Hours: Toll-free telephone support (1-800-638-3748 option #2) is available Monday thru Friday from 8:00 a.m. EST to 8:00 p.m. EST. After-hours, holiday and weekend support for Severity 1 and Severity 2 issues is available by calling 1-800-638-3748, option #8.

4. Support Procedures

- 4.1. Customer identifies an issue or potential problem and calls Technical Services at 1-800-638-3748 Option #2. The Customer Service Associate or Technical Support Engineer will submit a Salesforce ticket.
- 4.2. The Customer Service Associate or Technical Support Engineer will identify the caller name and utility by the assigned software serial number, city, and state based on where the call originated. The Customer Service Associate or Technical Support Engineer will require a brief description of the problem symptoms, or error messages depending on nature of the incident. The nature of the problem and severity levels will be mutually agreed upon by both parties (either at the time the issue is entered or prior to upgrading or downgrading an existing issue) using the severity definitions below as a guideline. The severity level is then captured into Salesforce for ticket creation and resolution processing. Any time during the processing of this ticket, if the severity level is changed by Sensus, the customer will be updated.

A. Severity Levels Description:

Sev1 Customer's production system is down. The system is unusable resulting in total disruption of work. No workaround is available and requires immediate attention.

Example: Network mass outage, all reading collection devices inoperable, inoperable head end software (e.g., FlexWare, Sensus MDM). Not able to generate billing files.

Sev2 Major system feature/function failure. Operations are severely restricted; there is a major disruption of work, no acceptable work-around is available, and failure requires immediate attention.

Examples: Examples: Network equipment failure (e.g., FlexNet Echo, FlexNet Remote, Base Station transceiver, or VGB); inoperable reading devices (e.g., AR5500, VXU, VGB, or CommandLink); head end software application has important functionality not working and cannot create export file for billing system operations.

Sev3 The system is usable and the issue doesn't affect critical overall operation.

Example: Minor network equipment failure (e.g., Echo/Remote false alarms or Base Station transceiver false alarms); head end software application operable but reports are not running properly, modification of view or some non-critical function of the software is not running.

- 4.3. The Customer Service Associate or Technical Support Engineer identifies whether or not the customer is on support. If the customer is not on support, the customer is advised of the service options as well as any applicable charges that may be billed.
- 4.4. Calls are placed in a queue from which they are accessible to Technical Support Engineers on a first-come-first-served basis. A 1st level Customer Service Associate may assist the customer, depending on the difficulty of the call and the representative's technical knowledge. Technical Support Engineers (Tier 1 support) typically respond/resolve the majority of calls based on their product knowledge and experience. A call history for the particular account is researched to note any existing pattern or if the call is a new report. This research provides the representative a basis and understanding of the account as well as any associated problems and/or resolutions that have been communicated.
 - a. Technical Services confirms that there is an issue or problem that needs further analysis to determine its cause. The following information must be collected: a detailed description of the issue's symptoms, details on the software/hardware product and version, a description of the environment in which the issue arises, and a list of any corrective action already taken.
 - b. Technical Services will check the internal database and product defect tracking system, to see if reports of a similar problem exist, and if any working solutions were provided. If an existing resolution is found that will address the reported issue, it shall be communicated to the customer. Once it is confirmed that the issue has been resolved, the ticket is closed.
 - c. If there is no known defect or support that defines the behavior, Technical Services will work with the customer to reproduce the issue. If the issue can be reproduced, either at the customer site or within support center test lab, Technical Services will escalate the ticket for further investigation / resolution.

If the issue involves units that are considered to be defective with no known reason, the representative will open a Special Investigation RMA through the Salesforce system. If it is determined that a sample is required for further analysis, the customer will be provided with instructions that detail where to send the product sample(s) for a root cause analysis. Once it is determined that the issue cannot be resolved by Tier 1 resources, the ticket will be escalated to Tier 2 support for confirmation/workarounds to resolve immediate issue. Technical Services will immediately contact the customer to advise of the escalation. The response and escalation times are listed in Section 5. At this time, screen shots, log files, configuration files, and database backups will be created and attached to the ticket.

5. Response and Resolution Targets.

Sensus Technical Support will make every reasonable effort to meet the following response and resolution targets:

Severity	Standard Target Response	Standard Target Resolution	Resolution (one or more of the following)
1	30 Minutes	Immediately assign trained and qualified Services Staff to correct the error on an expedited basis. Provide ongoing communication on the status of a correction (24 hours).	<ul style="list-style-type: none"> Satisfactory workaround is provided. Program patch is provided. Fix incorporated into future release. Fix or workaround incorporated into Salesforce Knowledge Base.
2	4 hours	Assign trained and qualified Services Staff to correct the error. Provide communication as updates occur (48 hours).	<ul style="list-style-type: none"> Satisfactory workaround is provided. Program patch is provided. Fix incorporated into future release. Fix or workaround incorporated into Salesforce Knowledge Base.
3	1 Business Day	30 business days	<ul style="list-style-type: none"> Answer to question is provided. Satisfactory workaround is provided. Fix or workaround incorporated into Salesforce Knowledge Base. Fix incorporated into future release.

6. **Problem Escalation Process.**

- 6.1. If the normal support process does not produce the desired results, or if the severity has changed, the issue may be escalated as follows to a higher level of authority.
- 6.1.1.1. Severity 1 issues are escalated by Sales or Technical Services to a Supervisor if not resolved within 2 hours; to the Manager level if not resolved within 4 hours; to the Director level if not resolved within the same business day; and to the VP level if not resolved within 24 hours.
- 6.1.1.2. A customer may escalate an issue by calling 1-800-638-3748, Option 2. Please specify the Salesforce ticket number and the reason why the issue is being escalated.
- 6.1.1.3. In the event that a customer is not satisfied with the level of support or continual problem with their products, they may escalate a given Salesforce ticket to Manager of Technical Services (1-800-638-3748, Option 2).

7. **General Support Provisions and Exclusions.**

- 7.1. Sensus provides online documentation for Sensus products, and all Sensus customers are provided access to this online database, which includes operation, configuration and technical manuals. The customer shall provide names and email accounts to Sensus so Sensus may provide access to the product documentation.
- 7.2. Specialized support from Sensus is available on a fee basis to address support issues outside the scope of this support plan or if not covered under another specific contract or statement of work. For example: specialized systems integration services or out of warranty network equipment repair.

Charter Township of Van Buren

Agenda Item: _____

REQUEST FOR BOARD ACTION

Work Study Date: 12/01/20

Board Meeting: 12/01/20

Consent Agenda _____

New Business X _____

Unfinished Business: _____

Public Hearing _____

ITEM (SUBJECT)	To consider approval of an amendment to the approved FY 2020 & FY 2021 Cemetery Budget.
DEPARTMENT	Public Services
PRESENTER(S)	Matthew R. Best, Director of Public Services
PHONE NUMBER	(734) 699-8913
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Elizabeth Renaud, Executive Assistant Public Services

Agenda topic

ACTION REQUESTED	
To consider approval of an amendment to the approved FY 2020 & FY 2021 Cemetery Budget that would transfer \$25,000 from FY 2020 Cemetery Capital (101-276-970-000) to FY 2021 Cemetery Capital (101-276-970-000.)	

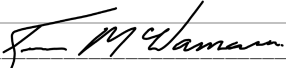
Capital improvement activities in the Township cemeteries were originally projected at \$30,000 for FY 2020, however due to COVID-19, contractor activity was postponed. Staff is recommending the transfer of the remaining \$25,000 in FY 2020 Cemetery Capital to be transferred to the FY 2021 budget to be utilized next year for vegetation management and fencing within the cemeteries.

BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
See attachment.	

BUDGET IMPLICATION	Transfer of \$25,000 from FY 2020 Cemetery Capital to FY 2021 Cemetery Capital.
IMPLEMENTATION NEXT STEP	If approved, work will be initiated at the beginning of FY 2021.

DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	

ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	

ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	



MEMO

TO: Township Board of Trustees

FROM: Matthew R. Best, Director of Public Services

RE: FY2020 & FY2021 Township Cemetery Budget Amendment

DATE: December 1, 2020

BACKGROUND

Capital improvement activities in the Township cemeteries were originally projected at \$30,000 for FY 2020, however due to COVID-19, contractor activity was postponed. Staff is recommending the transfer of the remaining \$25,000 in FY 2020 Cemetery Capital (101-276-970-000) to be transferred to the FY 2021 budget (101-276-970-000) to be utilized next year for vegetation management and fencing within the cemeteries.

This work includes a massive overhaul of vegetation at each cemetery including tree trimming, pruning, removal, treatment of stumps, removal of invasive plants and shrubs, and replanting and mulching. This work will be completed outside of the Township Landscaping contract.

BUDGET AMENDMENT

FY 2020 Original	FY 2020 Amended	FY 2021 Original	FY 2021 Amended
\$30,000	\$5,000	\$20,000	\$45,000

Charter Township of Van Buren

REQUEST FOR BOARD ACTION

Agenda Item: _____

Work Study Date: 12/01/20

Board Meeting: 12/01/20

Consent Agenda _____

New Business X _____

Unfinished Business: _____

Public Hearing _____

ITEM (SUBJECT)	To approve the purchase of a 2021 Ford Explorer from Atchinson Ford. This vehicle will be utilized as a Fleet Vehicle (assigned to the Supervisor's Office) . Total vehicle cost is \$28,832.00.
DEPARTMENT	Public Services
PRESENTER(S)	Matthew R. Best, Director of Public Services
PHONE NUMBER	(734) 699-8913
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Elizabeth Renaud, Executive Assistant Public Services

Agenda topic

ACTION REQUESTED	
To approve the purchase of a 2021 Ford Explorer from Atchinson Ford. This vehicle will be utilized as a Fleet Vehicle. Total vehicle cost is \$28,832.00.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
See attachment. (Window sticker is similar vehicle; actual vehicle information will be provided by Atchinson Ford.)	
BUDGET IMPLICATION	None. The items were part of the approved 2020 Budget
IMPLEMENTATION NEXT STEP	If approved, vehicle will be purchased.
DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	
ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	



Go Further

ford.com

VEHICLE DESCRIPTION

EXPLORER

2021 EXPLORER 4WD
119" WHEELBASE
2.3L ECOBOOST I4 ENGINE
10-SPEED AUTO TRANSMISSION

MG

A32984

EXTERIOR
CARBONIZED GRAY METALLIC

INTERIOR
SANDSTONE CLOTH SEATS

STANDARD EQUIPMENT INCLUDED AT NO EXTRA CHARGE

EXTERIOR

- DOOR HANDLES - BLACK
- EASY FUEL® CAPLESS FILLER
- HEADLAMPS - AUTO LED
- MIRRORS - POWER GLASS/ MANUAL FOLD
- POWER LIFTGATE
- PRIVACY GLASS - REAR DOORS
- REAR INT WIPER/WASH/DFRST
- REAR SPOILER, BODY COLOR
- TAILLAMPS-LED
- TRAILER SWAY CONTROL
- VARIABLE INTERVAL WIPERS

INTERIOR

- 1TOUCH UP/DOWN DR/PASS WIN
- 2ND ROW 35/30/35 FOLD-FLAT
- 3RD ROW - 50/50 FOLD FLAT
- CENTER CONSOLE W/ARMREST
- CLOTH FRONT CAPTAIN CHAIRS
- DUAL ILLUM VIS VANITY MIRR
- MANUAL PASS SEAT - 4-WAY
- POWER DRIV SEAT - 8-WAY
- POWERPOINTS - 12V
- ROTARY GEAR SHIFT DIAL
- TILT/TELESCOPING STEERING W/WHEEL MOUNTED CONTROLS
- TRI-ZONE ELECTRNC TMP CTRL
- USB A(1) AND C(1)-1ST ROW

FUNCTIONAL

- AM/FM/MP3, 6 SPEAKERS
- BRAKES, 4-WHEEL DISC/ABS
- FORD CO-PILOT360™
- FORDPASS™ CONNECT 4GWI-FI HOTSPOT TELEMATICS MODEM
- HILL START ASSIST
- MYKEY®
- REAR VIEW CAMERA
- REMOTE KEYLESS ENTRY
- REVERSE SENSING SYSTEM
- SIDE-WIND STABILIZATION
- SIRIUSXM® - SVC N/A AK&HI
- SYNC®3 8" SCRNR W/APPLINK®

SAFETY/SECURITY

- ADVANCETRAC® WITH RSC®
- AIRBAG-DRIVER/PASS KNEE
- AIRBAGS - DUAL STAGE FRONT
- AIRBAGS - FRONT SEAT MOUNTED SIDE IMPACT
- AIRBAGS - SAFETY CANOPY®
- INDIV TIRE PRESS MONIT SYS
- LATCH CHILD SAFETY SYSTEM
- PERSONAL SAFETY SYSTEM™
- SECURILOCK® ANTI-THEFT SYS
- SOS POST-CRASH ALERT SYST™

WARRANTY

- 3YR/36,000 BUMPER / BUMPER
- 5YR/60,000 POWERTRAIN
- 5YR/60,000 ROADSIDE ASSIST

INCLUDED ON THIS VEHICLE

EQUIPMENT GROUP 100A

OPTIONAL EQUIPMENT/OTHER

.18" PAINTED ALUMINUM WHEELS

.P255/65R18 A/S BSW TIRES

50 STATE EMISSIONS

CLASS III TRAILER TOW PACKAGE

(MSRP)

NO CHARGE

545.00

PRICE INFORMATION

BASE PRICE

\$34,225.00

TOTAL OPTIONS/OTHER

545.00

TOTAL VEHICLE & OPTIONS/OTHER

34,770.00

DESTINATION & DELIVERY

1,245.00

(MSRP)

	RAMP ONE		TOTAL MSRP \$36,015.00
	CT44	CONVOY	
	RAMP TWO	ITEM #:	
		48-X19X O/T 2	
	This label is affixed pursuant to the Federal Automobile Information Disclosure Act. Gasoline, License, and Title Fees, State and Local taxes are not included. Dealer installed options or accessories are not included unless listed above.		LK272 N RB 2X 120 001121 10 27 20

EPA DOT

Fuel Economy and Environment

Gasoline Vehicle

Fuel Economy

23

combined city/hwy

20

city

27

highway

Standard SUVs range from 13 to 101 MPG. The best vehicle rates 141 MPGe.

4.3

gallons per 100 miles

You spend

\$1,250

more in fuel costs over 5 years compared to the average new vehicle.

Annual fuel cost

\$1,750

Fuel Economy & Greenhouse Gas Rating (tailpipe only)

5

110Best

This vehicle emits 386 grams CO₂ per mile. The best emits 0 grams per mile (tailpipe only). Producing and distributing fuel also create emissions; learn more at fueleconomy.gov.

Smog Rating (tailpipe only)

5


110Best

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 27 MPG and costs \$7,500 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at \$2.70 per gallon. MPGe is miles per gasoline gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.

fueleconomy.gov

Calculate personalized estimates and compare vehicles

Smartphone QR Code™



GOVERNMENT 5-STAR SAFETY RATINGS

Overall Vehicle Score

★★★★★

Based on the combined ratings of frontal, side and rollover. Should ONLY be compared to other vehicles of similar size and weight.

Frontal Crash

Driver Passenger

★★★★★

Based on the risk of injury in a frontal impact. Should ONLY be compared to other vehicles of similar size and weight.

Side Crash

Front seat Rear seat

★★★★★

Based on the risk of injury in a side impact.

Rollover

★★★★

Based on the risk of rollover in a single-vehicle crash.

Star ratings range from 1 to 5 stars (★★★★★), with 5 being the highest. Source: National Highway Traffic Safety Administration (NHTSA). www.safercar.gov or 1-888-327-4236

1FMSK8BHXMG32984



⚠️ WARNING:

Operating, servicing and maintaining a passenger vehicle, pickup truck, van, or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

SCAN OR TEXT 1FMGA32984 TO 48028

Msg & Data rates may apply. Text HELP for help



www.ford.com/help/privacy-terms/

AMERICA'S ALL TIME BEST-SELLING SUV

The FordPass Connect™ modem is active and sending vehicle data (e.g., diagnostics) to Ford. See in-vehicle Settings for connectivity options.

FordPass Connect™ service and FordPass™ App required for certain remote features (see App Terms for more information). Connected service and related feature functionality is subject to compatible AT&T-network availability. Evolving technology / cellular networks may affect functionality and availability, or continued provision of some features, prohibiting them from functioning. Message and data rates may apply. See your local Ford website for our privacy policy.

Ford FORD PROTECT™

Insist on Ford Protect! The only extended service plan fully backed by Ford and honored at every Ford dealership in the U.S., Canada and Mexico. See your Ford dealer or visit www.FordOwner.com.

Charter Township of Van Buren

Agenda Item: _____

Work Study:

Board Meeting Date: December 1, 2020

REQUEST FOR BOARD ACTION

Consent Agenda

New Business x

Unfinished Business

Public Hearing

ITEM (SUBJECT)	MERS Addendum
DEPARTMENT	Human Resources
PRESENTER	Director Sumpter
PHONE NUMBER	734.699.8900 ext. 9293
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	

Agenda topic

ACTION REQUESTED:	
To Adopt the Clarification on how the MERS Defined Benefit	
BACKGROUND - (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
<p>The following addendums are to clarify how the Township is administering and reporting for the Defined Benefit plan to MERS which had never been asked to this level of detail. Items to clarify include the following: Employee Classifications, Probationary Periods, Service Credits, Leave of Absence and Types of Compensation.</p>	

BUDGET IMPLICATION	
IMPLEMENTATION NEXT STEP	Update Plan Document
DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	N/A
ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	<u>Daniel Selman</u>

Defined Benefit Plan Adoption Agreement Addendum



1134 Municipal Way Lansing, MI 48917 | 800.767.MERS (6377) | Fax 517.703.9711

www.mersofmich.com

The employer, a participating municipality or court within the state of Michigan, hereby agrees to adopt and administer the MERS Defined Benefit (DB) Plan provided by the Municipal Employees' Retirement System of Michigan, as authorized by 1996 PA 220, in accordance with MERS Plan Document, as both may be amended, subject to the terms and conditions herein.

I. Effective Date

The effective date shall be the first day of **January, 2021**.

II. Employer name Van Buren Twp

Municipality number 823601

This is an amendment of the existing Adoption Agreement for the MERS Defined Benefit.

Any changes to plan provisions apply to employees in the division on the effective date, as well as to new hires ongoing. Definitions will apply for all service accrued after the effective date.

Division number 82360102

Division name on file with MERS Patrol/Dispatch

III. Plan Eligibility

Only those employees eligible for MERS membership may participate in the MERS Defined Benefit. If an employee classification is **included** in the plan, then employees that meet this definition will receive service credit if they work the required number of hours to meet the service credit qualification defined below. All eligible employees must be reported to MERS.

Using your Division Name above, expand on the employee classifications that are eligible to participate in MERS. For example, if Division is "General," please insert specific classifications that are eligible for MERS such as "Clerical Staff," "Elected Officials," "Library Director," etc.:

Employee classification contains **public safety employees:** ☐ Yes ☐ No

Public safety employees include: law enforcement, parole and probation officers, employees responsible for emergency response (911 dispatch, fire service, paramedics, etc.), public works, and other skilled support personnel (equipment operators, etc.).

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360102

If you elect to include a special classification (chart below), then the employee will be required to meet the Service Credit Qualification as defined under section IV (Provisions) in order to earn a month of service. Excluded classification will require additional information below.

To further define eligibility (select all that apply):

Employee Classification	Included	Excluded	Not Employed
Temporary Employees: Those who will work for the municipality fewer than _____ months in total.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Part-Time Employees: Those who regularly work fewer than _____ per _____.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seasonal Employees: Those who will work for the municipality from _____ to _____ only.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voter-Elected Officials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appointed Officials: An official appointed to a voter-elected office.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contract Employees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Probationary Periods (select one):

- ☐ Service will begin after the probationary period has been satisfied. Probationary periods are allowed in one-month increments, no longer than 12 months. During this probationary period, the employer will not report or provide service.

The probationary period will be _____ month(s).

Comments:

- ☐ Service will begin with the employee's date of hire (no Probationary Period). Effective with the date of hire, wages paid and any associated contributions must be submitted to MERS.

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360102

IV. Provisions

1. Service Credit Qualification

To clarify how eligible employees earn service credit, please indicate how many hours per month an eligible employee needs to work. For example, if you require 10 eight-hour days, this would be 80 hours per month. If an 'hour per day' has been defined (like ten 7-hour days), electing 70 hours will be required. Employees must meet the definition of Plan Eligibility in order to earn service credit under the plan.

To receive one month of service credit, an employee shall work (or be paid for as if working) _____ hours in a month.

2. Leaves of Absence

Indicate by checking the boxes below, whether the potential for service credit will be allowed if an eligible employee is on one of the following types of leave, regardless of meeting the service credit qualification criteria.

Regardless whether an eligible employee is awarded service credit while on the selected type(s) of leave:

- MERS will skip over these months when determining the FAC amount for benefit calculations.
- Third-party wages **are not** reported for leaves of absence.
- Employers **are not** required to remit employer contributions based on leaves of absence when no wages are paid by the employer. However, an employer may submit additional voluntary contributions for the period of the leave in an amount determined by the employer.
- For **contributory divisions**, employee contributions are required for service credit to be retained. Employee contributions will be collected based on the Service Credit Qualification. Employers will calculate employee contributions due using the employee's current hourly rate (prior to leave). For example if 120 hours is required for service credit, then employee contributions shall be equal to 120 hours times the employee's hourly rate. Employees have three times the length of leave, to a maximum of five years, to pay required employee contributions. Leaves of absence are required to be reported to MERS, including the employee's start and end date per month, along with the employee's hourly rate.

Type of Leave	Service Credit Granted	Service Credit Excluded
Short- and Long-Term Disability	<input type="checkbox"/>	<input type="checkbox"/>
Workers' Compensation	<input type="checkbox"/>	<input type="checkbox"/>
Unpaid Family Medical Leave Act (FMLA)	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____ For example, sick and accident, administrative, educational, sabbatical, etc.	<input type="checkbox"/>	<input type="checkbox"/>
Other 2: _____ Additional leave types as above	<input type="checkbox"/>	<input type="checkbox"/>

Leaves of absence due to military service are governed by the Federal *Uniformed Services Employment and Reemployment Rights Act* of 1994 (USERRA), IRC 414(u), effective January 1, 2007, IRC 401(a)(37).

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360102

3. Definition of Compensation

The Definition of Compensation is used to calculate a participant's final average compensation and is used in determining both employer and employee contributions. Wages paid to employees, calculated using the elected definition, must be reported to MERS.

Select your Definition of Compensation here. If you choose to customize your definition, skip this table and proceed to page 5.

	<input type="radio"/> Base Wages	<input type="radio"/> Box 1 Wages	<input type="radio"/> Gross Wages
Types of Compensation			
Regular Wages Salary or hourly wage X hours PTO used (sick, vacation, personal, bereavement, holiday leave, or unclassified) On-call pay	All Regular Wages included	All Regular Wages included	All Regular Wages included
Other Wages Shift differentials Overtime Severance issued over time (weekly/bi-weekly)	Excluded	All Other Wages included	All Other Wages included
Lump Sum Payments PTO cash-out Longevity Bonuses Merit pay Job certifications Educational degrees Moving expenses Sick payouts Severance (if issued as lump sum)	Excluded	All Lump Sum Payments included	All Lump Sum Payments included
Taxable Payments Travel through a non-accountable plan (i.e. mileage not tracked for reimbursement) Prizes, gift cards Personal use of a company car Car allowance	Excluded	All Taxable Payments included	All Taxable Payments included
Reimbursement of Nontaxable Expenses (as defined by the IRS) Gun, tools, equipment, uniform Phone Fitness Mileage reimbursement Travel through an accountable plan (i.e. tracking mileage for reimbursement)	Excluded	Excluded	Excluded
Types of Deferrals			
Elective Deferrals of Employee Premiums/Contributions 457 employee and employer contributions 125 cafeteria plan, FSAs and HSAs IRA contributions	All Elective Deferrals included	Excluded	All Elective Deferrals included
Types of Benefits			
Nontaxable Fringe Benefits of Employees Health plan, dental, vision benefits Workers compensation premiums Short- or Long-term disability premiums Group term or whole life insurance < \$50,000	All Nontaxable Fringe Benefits included	Excluded	All Nontaxable Fringe Benefits included
Mandatory Contributions Defined Benefit employee contributions MERS Health Care Savings Program employee contributions	All Mandatory Contributions included	Excluded	All Mandatory Contributions included
Taxable Fringe Benefits Clothing reimbursement Stipends for health insurance opt out payments Group term life insurance > \$50,000	Excluded	Excluded	All Taxable Fringe Benefits included
Other Benefits / Lump Sum Payments Workers compensation settlement payments	Excluded	Excluded	All Other Lump Sum Benefits included

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360102

SKIP THIS TABLE if you selected one of the standard definitions of compensation on page 4.

☒ **CUSTOM:** If you choose this option, you must select boxes in each section you would like to include in your Definition of Compensation. You will be responsible for additional reporting details to track custom definitions.

Types of Compensation

Regular Wages

☐ Salary or hourly wage X hours

☐ On-call pay

☐ PTO used (sick, vacation, personal, bereavement, holiday leave, or unclassified)

☐ Other: _____

Other Wages apply: YES ☐ NO ☐
☐ Shift differentials

☐ Severance issued over time (weekly/bi-weekly)

☐ Overtime

☐ Other: _____

Lump Sum Payments apply: YES ☐ NO ☐
☐ PTO cash-out

☐ Educational degrees

☐ Longevity

☐ Moving expenses

☐ Bonuses

☐ Sick payouts

☐ Merit pay

☐ Severance (if issued as lump sum)

☐ Job certifications

☐ Other: _____

Taxable Payments apply: YES ☐ NO ☐
☐ Travel through a non-accountable plan (i.e. mileage not tracked for reimbursement)

☐ Prizes, gift cards

☐ Car allowance

☐ Personal use of a company car

☐ Other: _____

Reimbursement of Nontaxable Expenses (as defined by the IRS) apply: YES ☐ NO ☐
☐ Gun, tools, equipment, uniform

☐ Mileage reimbursement

☐ Phone

☐ Travel through an accountable plan (i.e. tracking mileage for reimbursement)

☐ Fitness

☐ Other: _____

Types of Deferrals

Elective Deferrals of Employee Premiums/Contributions apply: YES ☐ NO ☐
☐ 457 employee and employer contributions

☐ IRA contributions

☐ 125 cafeteria plan, FSAs and HSAs

☐ Other: _____

Types of Benefits

Nontaxable Fringe Benefits of Employees apply: YES ☐ NO ☐
☐ Health plan, dental, vision benefits

☐ Workers compensation premiums

☐ Group term or whole life insurance < \$50,000

☐ Short- or Long-term disability premiums

☐ Other: _____

Mandatory Contributions apply: YES ☐ NO ☐
☐ Defined Benefit employee contributions

☐ MERS Health Care Savings Program employee contributions

☐ Other: _____

Taxable Fringe Benefits apply: YES ☐ NO ☐
☐ Clothing reimbursement

☐ Group term life insurance > \$50,000

☐ Stipends for health insurance opt out payments

☐ Other: _____

Other Benefits / Lump Sum Payments apply: YES ☐ NO ☐
☐ Workers compensation settlement payments

☐ Other: _____

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360102

V. Execution:

Authorized Designee of Governing Body of Municipality or Chief Judge of Court

This foregoing Addendum is hereby approved by Van Buren Township

at a Board Meeting which took place on: _____
(mm/dd/yyyy)

Authorized Signature: _____

Printed Name: _____

Title: _____

Date: _____

☐ I understand that approved board minutes are required to complete this request.

Board minutes should be sent to: DataCollectionProject@mersofmich.com

Defined Benefit Plan Adoption Agreement Addendum



1134 Municipal Way Lansing, MI 48917 | 800.767.MERS (6377) | Fax 517.703.9711

www.mersofmich.com

The employer, a participating municipality or court within the state of Michigan, hereby agrees to adopt and administer the MERS Defined Benefit (DB) Plan provided by the Municipal Employees' Retirement System of Michigan, as authorized by 1996 PA 220, in accordance with MERS Plan Document, as both may be amended, subject to the terms and conditions herein.

I. Effective Date

The effective date shall be the first day of **January, 2021**.

II. Employer name Van Buren Twp

Municipality number 823601

This is an amendment of the existing Adoption Agreement for the MERS Defined Benefit.

Any changes to plan provisions apply to employees in the division on the effective date, as well as to new hires ongoing. Definitions will apply for all service accrued after the effective date.

Division number 82360120

Division name on file with MERS Command

III. Plan Eligibility

Only those employees eligible for MERS membership may participate in the MERS Defined Benefit. If an employee classification is **included** in the plan, then employees that meet this definition will receive service credit if they work the required number of hours to meet the service credit qualification defined below. All eligible employees must be reported to MERS.

Using your Division Name above, expand on the employee classifications that are eligible to participate in MERS. For example, if Division is "General," please insert specific classifications that are eligible for MERS such as "Clerical Staff," "Elected Officials," "Library Director," etc.:

Employee classification contains **public safety employees:** ☐ Yes ☐ No

Public safety employees include: law enforcement, parole and probation officers, employees responsible for emergency response (911 dispatch, fire service, paramedics, etc.), public works, and other skilled support personnel (equipment operators, etc.).

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360120

If you elect to include a special classification (chart below), then the employee will be required to meet the Service Credit Qualification as defined under section IV (Provisions) in order to earn a month of service. Excluded classification will require additional information below.

To further define eligibility (select all that apply):

Employee Classification	Included	Excluded	Not Employed
Temporary Employees: Those who will work for the municipality fewer than _____ months in total.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Part-Time Employees: Those who regularly work fewer than _____ per _____.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seasonal Employees: Those who will work for the municipality from _____ to _____ only.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voter-Elected Officials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appointed Officials: An official appointed to a voter-elected office.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contract Employees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Probationary Periods (select one):

- ☐ Service will begin after the probationary period has been satisfied. Probationary periods are allowed in one-month increments, no longer than 12 months. During this probationary period, the employer will not report or provide service.

The probationary period will be _____ month(s).

Comments:

- ☐ Service will begin with the employee's date of hire (no Probationary Period). Effective with the date of hire, wages paid and any associated contributions must be submitted to MERS.

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360120

IV. Provisions

1. Service Credit Qualification

To clarify how eligible employees earn service credit, please indicate how many hours per month an eligible employee needs to work. For example, if you require 10 eight-hour days, this would be 80 hours per month. If an 'hour per day' has been defined (like ten 7-hour days), electing 70 hours will be required. Employees must meet the definition of Plan Eligibility in order to earn service credit under the plan.

To receive one month of service credit, an employee shall work (or be paid for as if working) _____ hours in a month.

2. Leaves of Absence

Indicate by checking the boxes below, whether the potential for service credit will be allowed if an eligible employee is on one of the following types of leave, regardless of meeting the service credit qualification criteria.

Regardless whether an eligible employee is awarded service credit while on the selected type(s) of leave:

- MERS will skip over these months when determining the FAC amount for benefit calculations.
- Third-party wages **are not** reported for leaves of absence.
- Employers **are not** required to remit employer contributions based on leaves of absence when no wages are paid by the employer. However, an employer may submit additional voluntary contributions for the period of the leave in an amount determined by the employer.
- For **contributory divisions**, employee contributions are required for service credit to be retained. Employee contributions will be collected based on the Service Credit Qualification. Employers will calculate employee contributions due using the employee's current hourly rate (prior to leave). For example if 120 hours is required for service credit, then employee contributions shall be equal to 120 hours times the employee's hourly rate. Employees have three times the length of leave, to a maximum of five years, to pay required employee contributions. Leaves of absence are required to be reported to MERS, including the employee's start and end date per month, along with the employee's hourly rate.

Type of Leave	Service Credit Granted	Service Credit Excluded
Short- and Long-Term Disability	<input type="checkbox"/>	<input type="checkbox"/>
Workers' Compensation	<input type="checkbox"/>	<input type="checkbox"/>
Unpaid Family Medical Leave Act (FMLA)	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____ For example, sick and accident, administrative, educational, sabbatical, etc.	<input type="checkbox"/>	<input type="checkbox"/>
Other 2: _____ Additional leave types as above	<input type="checkbox"/>	<input type="checkbox"/>

Leaves of absence due to military service are governed by the Federal *Uniformed Services Employment and Reemployment Rights Act* of 1994 (USERRA), IRC 414(u), effective January 1, 2007, IRC 401(a)(37).

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360120

3. Definition of Compensation

The Definition of Compensation is used to calculate a participant's final average compensation and is used in determining both employer and employee contributions. Wages paid to employees, calculated using the elected definition, must be reported to MERS.

Select your Definition of Compensation here. If you choose to customize your definition, skip this table and proceed to page 5.

	<input type="radio"/> Base Wages	<input type="radio"/> Box 1 Wages	<input type="radio"/> Gross Wages
Types of Compensation			
Regular Wages Salary or hourly wage X hours PTO used (sick, vacation, personal, bereavement, holiday leave, or unclassified) On-call pay	All Regular Wages included	All Regular Wages included	All Regular Wages included
Other Wages Shift differentials Overtime Severance issued over time (weekly/bi-weekly)	Excluded	All Other Wages included	All Other Wages included
Lump Sum Payments PTO cash-out Longevity Bonuses Merit pay Job certifications Educational degrees Moving expenses Sick payouts Severance (if issued as lump sum)	Excluded	All Lump Sum Payments included	All Lump Sum Payments included
Taxable Payments Travel through a non-accountable plan (i.e. mileage not tracked for reimbursement) Prizes, gift cards Personal use of a company car Car allowance	Excluded	All Taxable Payments included	All Taxable Payments included
Reimbursement of Nontaxable Expenses (as defined by the IRS) Gun, tools, equipment, uniform Phone Fitness Mileage reimbursement Travel through an accountable plan (i.e. tracking mileage for reimbursement)	Excluded	Excluded	Excluded
Types of Deferrals			
Elective Deferrals of Employee Premiums/Contributions 457 employee and employer contributions 125 cafeteria plan, FSAs and HSAs IRA contributions	All Elective Deferrals included	Excluded	All Elective Deferrals included
Types of Benefits			
Nontaxable Fringe Benefits of Employees Health plan, dental, vision benefits Workers compensation premiums Short- or Long-term disability premiums Group term or whole life insurance < \$50,000	All Nontaxable Fringe Benefits included	Excluded	All Nontaxable Fringe Benefits included
Mandatory Contributions Defined Benefit employee contributions MERS Health Care Savings Program employee contributions	All Mandatory Contributions included	Excluded	All Mandatory Contributions included
Taxable Fringe Benefits Clothing reimbursement Stipends for health insurance opt out payments Group term life insurance > \$50,000	Excluded	Excluded	All Taxable Fringe Benefits included
Other Benefits / Lump Sum Payments Workers compensation settlement payments	Excluded	Excluded	All Other Lump Sum Benefits included

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360120

SKIP THIS TABLE if you selected one of the standard definitions of compensation on page 4.

☒ **CUSTOM:** If you choose this option, you must select boxes in each section you would like to include in your Definition of Compensation. You will be responsible for additional reporting details to track custom definitions.

Types of Compensation

Regular Wages

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> Salary or hourly wage X hours | <input type="checkbox"/> On-call pay |
| <input type="checkbox"/> PTO used (sick, vacation, personal, bereavement, holiday leave, or unclassified) | <input type="checkbox"/> Other: _____ |

Other Wages apply: YES ☐ NO ☐

- | | |
|--|--|
| <input type="checkbox"/> Shift differentials | <input type="checkbox"/> Severance issued over time (weekly/bi-weekly) |
| <input type="checkbox"/> Overtime | <input type="checkbox"/> Other: _____ |

Lump Sum Payments apply: YES ☐ NO ☐

- | | |
|---|--|
| <input type="checkbox"/> PTO cash-out | <input type="checkbox"/> Educational degrees |
| <input type="checkbox"/> Longevity | <input type="checkbox"/> Moving expenses |
| <input type="checkbox"/> Bonuses | <input type="checkbox"/> Sick payouts |
| <input type="checkbox"/> Merit pay | <input type="checkbox"/> Severance (if issued as lump sum) |
| <input type="checkbox"/> Job certifications | <input type="checkbox"/> Other: _____ |

Taxable Payments apply: YES ☐ NO ☐

- | | |
|---|--|
| <input type="checkbox"/> Travel through a non-accountable plan (i.e. mileage not tracked for reimbursement) | <input type="checkbox"/> Car allowance |
| <input type="checkbox"/> Prizes, gift cards | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Personal use of a company car | |

Reimbursement of Nontaxable Expenses (as defined by the IRS) apply: YES ☐ NO ☐

- | | |
|---|---|
| <input type="checkbox"/> Gun, tools, equipment, uniform | <input type="checkbox"/> Mileage reimbursement |
| <input type="checkbox"/> Phone | <input type="checkbox"/> Travel through an accountable plan (i.e. tracking mileage for reimbursement) |
| <input type="checkbox"/> Fitness | <input type="checkbox"/> Other: _____ |

Types of Deferrals

Elective Deferrals of Employee Premiums/Contributions apply: YES ☐ NO ☐

- | | |
|--|--|
| <input type="checkbox"/> 457 employee and employer contributions | <input type="checkbox"/> IRA contributions |
| <input type="checkbox"/> 125 cafeteria plan, FSAs and HSAs | <input type="checkbox"/> Other: _____ |

Types of Benefits

Nontaxable Fringe Benefits of Employees apply: YES ☐ NO ☐

- | | |
|--|--|
| <input type="checkbox"/> Health plan, dental, vision benefits | <input type="checkbox"/> Group term or whole life insurance < \$50,000 |
| <input type="checkbox"/> Workers compensation premiums | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Short- or Long-term disability premiums | |

Mandatory Contributions apply: YES ☐ NO ☐

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> Defined Benefit employee contributions | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> MERS Health Care Savings Program employee contributions | |

Taxable Fringe Benefits apply: YES ☐ NO ☐

- | | |
|---|---|
| <input type="checkbox"/> Clothing reimbursement | <input type="checkbox"/> Group term life insurance > \$50,000 |
| <input type="checkbox"/> Stipends for health insurance opt out payments | <input type="checkbox"/> Other: _____ |

Other Benefits / Lump Sum Payments apply: YES ☐ NO ☐

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> Workers compensation settlement payments | <input type="checkbox"/> Other: _____ |
|---|---------------------------------------|

Defined Benefit Plan Adoption Agreement Addendum

EMPLOYER NAME: Van Buren Twp

DIV: 82360120

V. Execution:

Authorized Designee of Governing Body of Municipality or Chief Judge of Court

This foregoing Addendum is hereby approved by Van Buren Township

at a Board Meeting which took place on: _____
(mm/dd/yyyy)

Authorized Signature: _____

Printed Name: _____

Title: _____

Date: _____

☐ I understand that approved board minutes are required to complete this request.

Board minutes should be sent to: DataCollectionProject@mersofmich.com

Charter Township of Van Buren

Agenda Item: _____

Work Study:

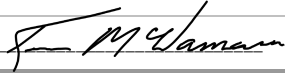
Board Meeting Date: December 1, 2020

REQUEST FOR BOARD ACTION

	Consent Agenda	New Business x	Unfinished Business	Public Hearing
ITEM (SUBJECT)	Resolution 2020-26 Annual Exemption (Opt Out)			
DEPARTMENT	Human Resources			
PRESENTER	Director Sumpter			
PHONE NUMBER	734.699.8900 ext. 9293			
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)				

Agenda topic

ACTION REQUESTED:	
Discussion to adopt resolution to exempt the Township from 2011 PA 152	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
<p>Annually the Township chooses Section 8- “Exemption” Option – local unit of government, as defined in the Act, may exempt itself from the requirements of the ACT by an annual 2/3 vote of the governing body.</p>	

BUDGET IMPLICATION	
IMPLEMENTATION NEXT STEP	
DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	N/A
ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	



Charter Township of Van Buren

BOARD OF TRUSTEES

SUPERVISOR
Kevin McNamara

CLERK
Leon Wright

TREASURER
Sharry A. Budd

TRUSTEE
Sherry A. Frazier

TRUSTEE
Kevin Martin

TRUSTEE
Reggie Miller

TRUSTEE
Paul D. White

Resolution No- 2020-26
December 1, 2020

RESOLUTION TO ADOPT THE ANNUAL EXEMPTION OPTION AS SET FORTH IN 2011 PUBLIC ACT 152, THE PUBLICLY FUNDED HEALTH INSURANCE CONTRIBUTION ACT

WHEREAS, 2011 Public Act 152 (the “Act”) was passed by the State legislature and signed by the on September 24, 2011:

WHEREAS, the Act contains three options for complying with the requirements of the Act:

WHEREAS, the three options are as follows:

- 1) Section 3 – “Hard Caps” Option- limits a public employer’s total annual health care costs for employees based on coverage levels, as defined in the Act;
- 2) Section 4- “80%/20%” Option- limits a public employer’s share of total annual health care costs to not more than 80%. This option requires an annual majority vote of the governing body;
- 3) Section 8- “Exemption” Option- a local unit of government, as defined in the Act, may exempt itself from the requirements of the Act by an annual 2/3 vote of the governing body;

WHEREAS, the **CHARTER TOWNSHIP OF VAN BUREN** has decided to adopt the annual Exemption option as its choice of compliance under the Act;

NOW, THEREFORE, BE IT RESOLVED the **CHARTER TOWNSHIP OF VAN BUREN** of **VAN BUREN CHARTER TOWNSHIP, MICHIGAN** elects to comply with the requirements of 2011 Public Act 152, the option for the medical benefit plan coverage year **JANUARY 1, 2021** through **DECEMBER 31, 2021**.



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF TREASURY

RACHAEL EUBANKS
STATE TREASURER

March 18, 2020

**PUBLIC EMPLOYER CONTRIBUTIONS TO MEDICAL BENEFIT PLANS
ANNUAL COST LIMITATIONS – CALENDAR YEAR 2021**

For a medical benefit plan coverage year beginning on or after January 1, 2012, MCL 15.563, as last amended by 2018 Public Act 477, sets a limit on the amount that a public employer may contribute to a medical benefit plan.

For medical benefit plan coverage years beginning on or after January 1, 2013, MCL 15.563 provides that the dollar amounts that are multiplied by the number of employees with each coverage type be adjusted annually. Specifically, the dollar amounts shall be adjusted, by October 1 of each year after 2011 and before 2019, by the change in the medical care component of the United States consumer price index for the most recent 12-month period for which data are available. By April 1 of each year after 2018, the dollar amounts shall be adjusted by the change in the medical care component of the U.S. consumer price index for the most recent 12-month period for which data are available. For calendar year 2020, the limit on the amount that a public employer may contribute to a medical benefit plan was set to the sum of the following:

- \$ 6,818.87 times the number of employees and elected public officials with single-person coverage
- \$14,260.37 times the number of employees and elected public officials with individual-and-spouse coverage or individual-plus-1-nonspouse-dependent coverage
- \$18,596.96 times the number of employees and elected public officials with family coverage.

The limits for 2021 equal the 2020 limits increased by **3.3 percent**. The 3.3 percent is the percentage change in the medical care component from the period March 2018-February 2019 to the period March 2019-February 2020.

Thus, for medical benefit plan coverage years beginning on or after January 1, 2021, the limit on the amount that a public employer may contribute to a medical benefit plan equals the sum of the following:

- **\$ 7,043.89** times the number of employees and elected public officials with single-person coverage
- **\$ 14,730.96** times the number of employees and elected public officials with individual -and-spouse coverage or individual-plus-1-nonspouse-dependent coverage
- **\$ 19,210.66** times the number of employees and elected public officials with family coverage.


Rachael Eubanks
State Treasurer

March 18, 2020

Charter Township of Van Buren

Agenda Item: _____

REQUEST FOR BOARD ACTION

BOARD MEETING
DECEMBER 1, 2020

Consent Agenda _____ New Business X Unfinished Business _____ Public Hearing _____

ITEM (SUBJECT)	Amendments to 2020 Amended Budget to line items: 101-101-955-000 (COVID-19 Expenses) & 101-101-955-001 (COVID-19 Grant).
DEPARTMENT	Board of Trustees
PRESENTER	Supervisor McNamara
PHONE NUMBER	734-699-8900
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	

Agenda topic

ACTION REQUESTED	
To consider amending 2020 Amended Budget line item: 101-101-955-000 (COVID-19 Expenses) to \$120,000, with necessary transfer from fund balance.	
To consider amending 2020 Amended Budget to line item: 101-101-955-001 (COVID-19 Grant) to \$58,274.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
Covid-19 Expenses line item amendment due to the purchase of technology for staff to facilitate remote work capabilities as well as other COVID related expenses.	
COVID-19 Grant line item increase due to anticipated FEMA Grant award in the amount of \$33,274.	
BUDGET IMPLICATION	2020 Amended Budget to line item 101-101-955-000 (COVID-19 Expenses) to \$120,000, with necessary transfer from fund balance. 2020 Amended Budget to line item: 101-101-955-001 (COVID-19 Grant) to \$58,274.
IMPLEMENTATION NEXT STEP	
DEPARTMENT RECOMMENDATION	Approval
COMMITTEE/COMMISSION RECOMMENDATION	
ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	None
APPROVAL OF SUPERVISOR <u>Daniel Selman</u>	

Charter Township of Van Buren **Agenda Item:** _____

Work Study:
Board Meeting Date: December 1, 2020

REQUEST FOR BOARD
ACTION

Consent Agenda	New Business X	Unfinished Business	Public Hearing
ITEM (SUBJECT)	Van Buren Charter Township Fire Chief		
DEPARTMENT	Public Safety-Fire Services		
PRESENTER	Director of Public Safety, Greg Laurain		
PHONE NUMBER	734.699.8950		
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Director of Human Resources, Nicole Sumpter and Fire Chief Candidate, David C. McNally II		

Agenda topic

ACTION REQUESTED:

To consider approval of Personal Service Agreement between David C. McNally II and the Township, and authorize Supervisor McNamara and Clerk Wright to execute the agreement.

BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)

Chief Amy Brow has announced her retirement effective January 4th, 2021 with a Fire Chief position being vacant. We have an internal candidate that is qualified, willing and able to serve as Fire Chief in 2021. Subsequently, Fire Marshall David McNally has performed the duties of the Fire Chief during her absence from October 2019 – May 2020.

Maintaining stability of the Fire Department is a top priority and given David McNally' s past experience as a Firefighter, Command Officer, Fire Marshall and Acting Fire Chief, along with years of service with the department. Chief Brow has mentored Dave during her tenure and he has served in her absence in an exemplary manner. David possesses the necessary knowledge, skills, abilities and qualifications along with education requirements to perform as Fire Chief for Van Buren Township.

As Public Safety Director I have personally and professionally known Dave for over 29 years while he worked in the capacity of a fire explorer, public safety dispatcher, paid on-call firefighter and Fire Marshall. I feel very confident that the Fire Department would be under the capable hands of such a seasoned professional whose leadership, character, loyalty and professionalism are without question.

I am highly recommending that Dave McNally be our new Fire Chief in January 2021.

BUDGET IMPLICATION

IMPLEMENTATION NEXT STEP

Execution of Personal Service Agreement

DEPARTMENT RECOMMENDATION

Approval

COMMITTEE/COMMISSION RECOMMENDATION

N/A

ATTORNEY RECOMMENDATION

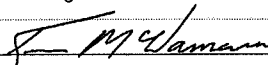
Attorney reviewed. Suggested language and modifications incorporated into agreement.

(May be subject to Attorney/Client Privilege and not available under FOIA)

ADDITIONAL REMARKS

Personal Service Agreement and Resume Attached

APPROVAL OF SUPERVISOR



DAVID CAMERON MCINALLY II

46425 Tyler Road, Van Buren Township, MI 48111
Office: (734) 699-8900 x 9416 Cell: (313) 410-0302
dmcinally@vanburen-mi.org

Executive Summary

A dedicated employee with over 29 years of service for Van Buren Township with experience in directing and coordinating operations with emergency and Non-emergency events. My record supports that I am a strong leader and manager with a focus on customer service, a team player, a good communicator, and a good problem solver. I take pride in being loyal, credible, honest, open and approachable. I am proud of the mutually respectful relationships I've developed and maintained with the area Fire Chiefs, elected officials, business and neighborhood groups.

Since the Fire Chief's return, I have been working alongside her on the daily operations within the fire department, which have included budgets, personnel, scheduling, mutual aid meetings, COVID policies, department payroll, etc. I have applied for, and am awaiting, acceptance into the National Fire Academy's Executive Fire Officer Program in Emmetsburg, Maryland. I also have applied for, and am awaiting, acceptance into the State of Michigan's Professional Emergency Managers (PEM) program.

EXPERIENCE:

- 29 years on the Van Buren Township Fire Department progressing naturally from fire explorer to firefighter (1991), Lieutenant (1999), Captain (2005), Battalion Chief (2012), Fire Marshal (2016), Interim Fire Chief of Van Buren Fire Department from January till May of 2020
- Currently lead, manage, and forecast the budgetary needs of the township's Fire Prevention Bureau which includes plan reviews, pre-incident plans, commercial and multi-family inspections, and high-risk fire prevention efforts
- Recently submitted a Public Assistance Grant working alongside Executive Assistant from the Van Buren Township Supervisors Office
- Lauded by top department administrative managers throughout career for involvement in risk reduction and fire prevention
- 3rd year trustee for the Michigan Fire Inspectors Society
- Secretary for the Michigan Fire Inspectors Foundation
- Member of the State of Michigan Community Risk Reduction Taskforce- MI-Prevention
- Member of the Michigan Fire Inspectors Society since 2002, sit on the planning committee, home fire sprinkler coalition and code development committees
- Currently the President for the Metro Detroit Fire Inspectors Society
- Certified by the National Fire Protection Association (NFPA) as a Fire Inspector I, Fire Inspector II, and Fire Plans Examiner
- Completed the Michigan State Police 72nd Basic Fire Investigation program
- State Licensed Emergency Medical Technician – Basic (EMT-B)

EMPLOYMENT:

Van Buren Township Public Safety; Van Buren Township, MI
Communications Officer/911 Dispatcher
Senior Dispatcher

8/93-12/15

- Answer emergency and non-emergency phone lines; communicate with and dispatch fire & law enforcement agencies to priority and non-priority calls via landline, radio, or mobile computers.

Van Buren Township Fire Department; Van Buren Township, MI
Full Time Fire Marshal

7/91-Present

- Responsible for township's Fire Prevention Bureau which includes plan reviews, pre-incident plans, commercial and multi-family inspections, and high-risk fire prevention and education efforts. Supervise and manage other members of the fire department, including the department's fire inspector, who conduct fire prevention reviews, inspections, pre-incident plans, or fire prevention activities. Conduct, assign, or delegate fire plan reviews, pre-incident plans, or on-site building inspections. Previously job assignments prior to promotions included paid-on-call Fire Fighter, Lieutenant, Captain, Battalion Chief, and Fire Marshal.

Schoolcraft College, Livonia, MI
Assistant Program Coordinator for Fire Fighter 2

1/18-present

Michigan International Speedway., Brooklyn, MI
Tower Coordinator – Race Operations

6/00-Present

- Work as track's Tower Coordinator in the race tower high above the track; Work at the events leading up to, and including, race day for NASCAR sponsored events. In a unified command system with NASCAR, during their sanctioned events, support them with fire safety for on track activities. Michigan International Speedway becomes populated enough on race weekends to be considered the state's third largest city.

MACNLOW Associates., Tawas, MI
Associate Instructor

4/06-12/15

- Adjunct instructor who taught other 9-1-1 communication officers, call takers, and dispatchers the principles behind handling 9-1-1 callers and using different methods for increasing the successful outcomes of suicide incidents.

EDUCATION:

- **Washtenaw County Community College, Ypsilanti Twp., MI** **09/92-09/93**
Undergraduate courses included Fire Prevention II, Emergency Medical Technician, Building Construction, and Fire Science Apparatus.
- **Eastern Michigan University** **05/06-01/07**
Fire Staff & Command Graduate - Class 8
- **Columbia Southern University** **08/17-Current**
Associate of Science – Fire Science **07-18**
Bachelors of Science – Fire Administration **03-19**

CERTIFICATIONS:

- Fire Officer I
- Fire Officer II
- Fire Officer III
- NFPA Fire Inspector I
- NFPA Fire Inspector II
- NFPA Plans Examiner
- FEMA IS-00100
- FEMA IS-00200
- FEMA IS-00317
- FEMA IS-00700
- FEMA IS-00800
- FEMA IS-00907
- National Fire & Emergency Services Higher Education Program – Fire Protection Systems
- National Fire & Emergency Services Higher Education Program – Political and Legal Foundations in Fire Protection
- National Fire & Emergency Services Higher Education Program – Personnel Management for the Fire Service
- National Fire & Emergency Services Higher Education Program – Applications of Fire Research
- Sub-Apparatus Vehicle Emergency Response
- 72nd Basic Fire Investigation School (Pro Board Certified)
- Emergency Response to Terrorist Bombing
- Instructor 1
- VFIS Instructor
- Fire Fighter I & II Instructor
- Fire Officer I & II
- NEW NFPA 1021 online Fire Officer I & II Instructor

Charter Township of Van Buren

Agenda Item: _____

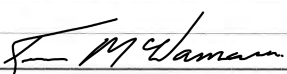
Board Meeting Date: December 1, 2020

REQUEST FOR BOARD ACTION

Consent Agenda	<input checked="" type="checkbox"/> New Business	Unfinished Business	Public Hearing
ITEM (SUBJECT)	Memorandum of Understanding Western Wayne County Mobile Field Force		
DEPARTMENT	Public Safety		
PRESENTER	Public Safety Director Greg Laurain		
PHONE NUMBER	734-699-8900		
INDIVIDUALS IN ATTENDANCE (OTHER THAN PRESENTER)	Chief Jason Wright		

Agenda topic

ACTION REQUESTED:	
To consider approval of the Memorandum of Understanding between the Western Wayne Mobile Field Force Consortium and Van Buren Township and to be authorized by the Supervisor to execute the Agreement.	
BACKGROUND – (SUPPORTING AND REFERENCE DATA, INCLUDE ATTACHMENTS)	
<p>Van Buren Twp. Police has been a member the Western Wayne County Mobile Field Force (WWCMFF) Consortium since 2010 and consists of members from several (21) Western Wayne County agencies. This multi-jurisdictional team is comprised of specialty-trained police from these agencies and is utilized to respond to civil unrest incidents that are beyond the capabilities of standard road patrol personnel and lacking sufficient manpower to manage these types of large-scale incidents. This team was established to train, equip and make ready officers from the participating agencies, and to be utilized if needed during civil unrest within those communities.</p> <p>Van Buren Police has had officers assigned to this Unit since its conception. This unit has been utilized by participating agencies over the years to include Livonia and Plymouth Cities this past summer. Our department has also had this Unit on stand-by during protest occurring in Van Buren Township this year. Currently our department has 3 officers assigned to this Unit and trains quarterly with the team. These officers are well trained and equipped to manage and control large crowds during civil unrest and violent demonstrations.</p> <p>Since the Units conception, there has not been an official memorandum of understanding between any of these agencies involved, and they have been operating under a verbal mutual-aid agreement. Law Enforcement Executives from these 21 agencies provided input into this memorandum of understanding to officially outline the WWCMFF Unit, and legitimizing its existence. This MOU addresses and defines the agency participation and team membership requirements.</p>	

BUDGET IMPLICATION	Budgeted
IMPLEMENTATION NEXT STEP	Execute Memorandum of Understanding Agreement
DEPARTMENT RECOMMENDATION	
COMMITTEE/COMMISSION RECOMMENDATION	N/A
ATTORNEY RECOMMENDATION	
(May be subject to Attorney/Client Privilege and not available under FOIA)	
ADDITIONAL REMARKS	
APPROVAL OF SUPERVISOR	

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM**

MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING (MOU) is hereby entered into by and between the Western Wayne County Mobile Field Force Team (WWCMFF) and the participating municipal police agencies signing below. The purpose of this MOU is to establish formal framework for joint actions involving these agencies as it relates to the participation of police officers on the Western Wayne County Mobile Field Force Team.

SCOPE

The First Amendment right of free speech and lawful assembly is fundamental to our society and necessary for our form of government. However, it is understood that civil unrest may result from a variety of situations, including but not limited to planned and unplanned protests, large or unpopular assemblies and acts of civil disobedience. During times of civil unrest, agencies' resources can be quickly overwhelmed preventing an adequate police response and thereby creating a substantial risk of property damage and injury to officers, participants, and bystanders. In order to address these challenges, the WWCMFF is created to provide resources and planning to events requiring the need for crowd control techniques or the restoration of order where the need is greater than the capabilities offered by a single agency.

AUTHORITY

This MOU is effective as of the date of signature by the chief law enforcement official of each participating agency and the municipality's chief executive officer or their designee. It shall remain in full force and effect until all participating agencies agree to cancel it or a participating agency provides 90 days' written notice to the WWCMFF Board Chair of their intent to withdraw from the team.

BOARD OF DIRECTORS

The WWCMFF Board of Directors shall be comprised of the chief law enforcement official or their designee from each participating agency and shall provide oversight to the WWCMFF. The Board shall meet on a quarterly basis to receive updates from the team Commander and discuss the business of the team. Should an issue arise that needs to be decided by a vote of the board, a majority vote of those in attendance shall rule. The WWCMFF Board Chair position shall rotate among the participating agencies on a two-year rotation.

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM**

MEMORANDUM OF UNDERSTANDING

ELIGIBILITY AND PARTICIPATION

Current members of the WWCMFF are Schoolcraft College, University of Michigan-Dearborn, Wayne County Airport Authority, the Cities of: Dearborn, Dearborn Heights, Garden City, Livonia, Northville, Plymouth, Wayne, Westland, and the Townships of Canton, Huron, Northville, Plymouth, Redford, Sumpter and Van Buren.

Any duly organized police agency having jurisdiction within Western Wayne County may apply for participation to the WWCMFF Board of Directors. Any agency entering into this agreement shall have its chief law enforcement official and the municipality or entity's chief executive officer or their designee execute a copy of this MOU; and shall assign personnel to the unit according to the team's selection process.

PARTICIPATION FEE

Each participating agency shall be responsible for an annual participation fee due by January 31st of each year. If an agency joins in the middle of a fiscal year the participation fee shall be prorated for the remainder of the year. The participation fee will be set by majority vote of the WWCMFF Board of Directors at the last quarterly meeting before the preceding year based on the adopted budget.

BUDGET

The team Commander shall be responsible for preparing an annual budget and presenting it to the WWCMFF Board of Directors prior to December 31st of each year at the last quarterly meeting of the year. The budget will be adopted by majority vote of those in attendance at the Board Meeting.

MOBILE FIELD FORCE TEAM MEMBERSHIP REQUIREMENTS

Each participating agency agrees to appoint members to the WWCMFF based on a pre-determined Personnel Commitment List. Each agency will evaluate and update their personnel commitment every three years based on their enforcement staffing levels. Personnel commitments may not fall below one member. Any agency that fails to meet their commitment for a period of one hundred-eighty (180) consecutive days in any calendar year may be subject to removal from the WWCMFF.

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM**

MEMORANDUM OF UNDERSTANDING

The calendar year shall be from January 1st to December 31st of each year. Prior to any agency being removed from WWCMFF, the Board of Directors will review the circumstances surrounding the deficit of required assigned members will commence. The WWCMFF Board may at its discretion choose to take other appropriate action. The assignment and/or removal of members to the WWCMFF must be in written form to the WWCMFF Board Chair and Team Commander prior to the effective day of the action. Participating agencies may elect to assign additional members with approval of the Team Commander.

The minimum training and experience qualifications for appointment to the WWCMFF are: Each member shall be a certified police officer in good standing with their home agency and the State of Michigan and shall have been released from their department's new officer probationary period. Further, Members are expected to serve a minimum three-year commitment and will be required to attend field force operations training approved by the Team Commander within 1 year of appointment. Any exceptions to the minimum training requirements must be approved by the Team Commander.

MOBILE FIELD FORCE MEMBER PARTICIPATION REQUIREMENTS

It is expected that each member attends their quarterly and specialty training sessions and responds to all incidents in which they are requested.

Each team member shall be released from duty or compensated for all required team responses and training. It is expected that team members attend 100% of all training sessions. All absences shall require prior (when possible) written notification to the Team Commander and their agency Chief/Director. Expected extended absences due to injury or other reasons shall be reported to the Team Commander in advance. Member attendance records will be provided to the Board at quarterly meetings.

The status of member agencies whose required members miss two (2) consecutive training sessions within the calendar year will be reviewed by the WWCMFF Board. Upon three (3) consecutive missed training sessions within the calendar year, the WWCMFF Board Chair and Team Commander will consult with the agency Chief/Director and the member's status will become *Inactive*. The calendar year shall be considered January 1st through December 31st of each year. The Team Commander will determine when the *Inactive* member may return to *Active* status. The

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM**

MEMORANDUM OF UNDERSTANDING

WWCMFF Board will review the circumstances pertaining to the absences and may recommend additional appropriate action to be taken.

PROVISIONS FOR ACTIVATION OF THE TEAM

The participating agencies which approve and enter into this MOU may request the Western Wayne County Mobile Field Force Team's assistance for incidents or events occurring within their jurisdiction including but not limited to protests, popular and unpopular assemblies, acts of civil disobedience and other crowd control situations as outlined by WWCMFF policy.

In the event that a participating agency is in need of assistance as set forth above, the agency shall request activation of the team through the Van Buren Township Public Safety Department at (734) 699-8930. The participating agency may seek technical guidance prior to making a request by contacting the team Commander or their designee per the WWCMFF policy.

Agencies requesting activation of the team should include WWCMFF Command personnel in the earliest stages of incident planning. At the time of request, agencies should be prepared to provide:

- Staging area for up to 60 personnel and equipment
- Transportation for up to 60 personnel and equipment from the staging area to the target location (i.e. busses, box truck, etc.)
- Communication information (talkgroup, Special Event Channel)
- Any gathered intelligence information
- Officers to support WWCMFF arrest procedures
 - Evidence technicians for photographs linking arrestees to team members
 - Booking personnel & location
- Operations Order, if possible

COMMAND AND SUPERVISORY RESPONSIBILITY

The chief law enforcement official or the highest-ranking law enforcement officer of the

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM**

MEMORANDUM OF UNDERSTANDING

requesting agency shall have overall command of the incident. The WWCMFF Commander or their designee shall have command of the team and tactics deployed during the incident after consultation with the requesting agencies incident commander.

LIABILITY

Each participating agency will each remain responsible for any claims arising out of its performance of this MOU as provided by this MOU or by law. The MOU is not intended nor will it be interpreted as giving either party a right of indemnification, either by contract or by law, for claims arising out of the performance of this MOU. The MOU is not intended to alter or increase any participating agency's liability for tort claims to other third parties nor is it intended to be a third-party beneficiary contract; therefore, it confers no rights or third-party status on anyone other than to the parties to the MOU.

POWERS, PRIVILEGES, IMMUNITIES, AND COSTS

WWCMFF members of each participating agency engaging in assistance outside of their jurisdictional limits, under the terms of this MOU, shall, pursuant to the provisions of the Western Wayne County Police Mutual Aid Agreement, have the same powers, duties, rights, privileges, and immunities as a sworn police officer operating within their jurisdiction.

Each participating agency agrees to furnish assigned members with the required equipment and training as outlined by WWCMFF policy and must bear the cost of maintenance and lost or damaged equipment that occurs during normal use.

Each participating agency shall compensate its WWCMFF members during the time they are rendering assistance during an activation including compensation due to injury or death.

The privileges and immunities from liability, exemption from laws, ordinances and rules, and all pension, insurance, relief, disability, worker's compensation, salary, death and other benefits that apply to the activity of a WWCMFF member of a participating agency when performing the member's duties within the jurisdictional limits of the member's agency apply to the employee to the same degree, manner, and extent while engaged in the performance of the employee's duties outside the jurisdictional limits of the member's agency under the provisions of this MOU.

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM**

MEMORANDUM OF UNDERSTANDING

COMPLAINTS

Whenever there is cause to believe that a complaint has arisen as a result of a WWCMFF response as promulgated by this MOU, the chief law enforcement official or their designee of the requesting agency shall be responsible for the documentation of the complaint to determine the following:

- The identity and contact information of the complainant.
- The specific facts of the complaint.
- The identity (if known) of the member/employee/officer accused in the complaint.

If it is determined that the complaint concerns the actions of the WWCMFF or a team member(s), the above information, with all documentation gathered during the receipt of the complaint, shall be forwarded to the WWCMFF Commander for review and investigation. Violations of a criminal nature shall be investigated in accordance with the requesting agency's internal policy. If the requesting agency does not have an internal policy addressing the investigation of criminal complaints, the complaint shall be investigated by the Michigan State Police.

Any officer involved shooting that occurs during the deployment of the WWCMFF will be investigated in accordance with the requesting agencies internal policy. If the requesting agency does not have an internal policy addressing these types of investigations the incident shall be investigated by the Michigan State Police.

MISCELLANEOUS

No failure by a party to insist upon the strict performance of any term of this MOU or to exercise any term after a breach affects or alters this MOU, but every term of this MOU remains effective with respect to any other then existing or subsequent breach.

If any provision of this MOU or the application to any person or circumstance is, to any extent, judicially determined to be invalid or unenforceable, the remainder of the MOU, or the application of the provision to persons or circumstances other than those as to which it is invalid or unenforceable, is not affected and is enforceable.

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM**

MEMORANDUM OF UNDERSTANDING

This MOU, and all actions arising from it, must be governed by, subject to, and construed according to the laws of the State of Michigan.

There are no other agreements, written or oral, between these parties arising out of the same subject matter. Any changes or modifications to the Agreement shall be in writing and executed by authorized agents for each party.

CANCELLATION

A participating agency may cancel their participation in this MOU by notifying the WWCMFF Board Chair with 90 days written notice of their intent to withdraw from the team and this agreement.

**STATE OF MICHIGAN
COUNTY OF WAYNE
WESTERN WAYNE COUNTY MOBILE FIELD FORCE TEAM
MEMORANDUM OF UNDERSTANDING
MEMBER SIGNATURE PAGE**

CHARTER TOWNSHIP OF VAN BUREN

Director of Public Safety

Township Supervisor

Date