

CHARTER TOWNSHIP OF PLYMOUTH

BOARD OF TRUSTEES MEETING

Tuesday, August 25, 2020
7:00 PM



CALL TO ORDER AT _____ P.M.

A. ROLL CALL: Kurt Heise_____, Mark Clinton_____, Chuck Curmi_____,
Bob Doroshewitz_____, Jerry Vorva_____, Jack Dempsey_____,
Gary Heitman_____

B. PLEDGE OF ALLEGIANCE

C. APPROVAL OF AGENDA

Tuesday, August 25, 2020

D. APPROVAL OF CONSENT AGENDA

D.1 Approval of Minutes:

Regular Meeting - Tuesday, July 28, 2020

D.2 Acceptance of Communications, Resolutions, Reports

Building Department Monthly Report - July 2020

Fire Department Monthly Report - July 2020

Police Department Monthly Report - July 2020

Planning Department Monthly Report - July 2020

FOIA Monthly Report - Clerk's Office - July 2020

FOIA Monthly Report - Police Department - July 2020

D.3 Approval of Township Bills:

FUND	ACCT	ALREADY PAID	TO BE PAID	TOTAL:
General Fund	101	1,110,559.54	147,806.54	1,258,366.08
Solid Waste Fund	226	6,987.95	111,102.78	118,090.73
Improvement Revolving (Capital)	246	.00	14,900.00	14,900.00

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Tuesday, August 25, 2020
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Drug Forfeiture Fund	265	.00	.00	.00
Drug Forfeiture State	266	.00	76,023.57	76,023.57
Drug Forfeiture IRS	267	.00	.00	.00
Golf Course Fund	510	.00	.00	.00
Senior Transportation	588	7,477.53	597.75	8,075.28
Water/Sewer Fund	592	796,361.48	38,895.73	835,257.21
Trust and Agency	701	.00	.00	.00
Police Bond Fund	702	1,250.00	.00	1,250.00
Tax Pool	703	2,177.71	.00	2,177.71
Special Assessment Capital	805	255,749.49	707,348.40	963,097.89
TOTALS:		2,180,563.70	1,096,674.77	3,277,238.47

E. PUBLIC COMMENT (Limited to 3 Minutes)

F. NEW BUSINESS

1. Margate Cluster Housing Option, **Resolution #2020-08-25-75**, *Laura Haw, Township Planner*
2. Ponds of Andover Cluster Housing Option, **Resolution #2020-8-25-76**, *Laura Haw, Township Planner*

CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES MEETING

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3. 2020 Sanitary Sewer Rehabilitation Program (CIPP) Contract Award, **Resolution #2020-08-25-77**, *Patrick Fellrath, Director, Public Services and Jeremy Schrot, Township Engineer*
4. Country Acres Pump Station Improvements Contract Award, **Resolution #2020-08-25-78**, *Patrick Fellrath, Director, Public Services and Jeremy Schrot, Township Engineer*
5. As-Needed Water Repair Services Contract Award, **Resolution #2020-08-25-79**, *Patrick Fellrath, Director, Public Services and Jeremy Schrot, Township Engineer*
6. Northville Road PRV Replacement Rehabilitation-Design Phase, **Resolution #2020-08-25-80**, *Patrick Fellrath, Director, Public Services and Jeremy Schrot, Township Engineer*
7. Annual Water Rate Approval, **Resolution #2020-08-25-81**, *Treasurer Mark Clinton*
8. Resolution Regarding Salem Springs Development, **Resolution #2020-08-25-82**, *Supervisor Kurt Heise*
9. Non-Union Employee Salary Adjustments, **Resolution #2020-08-25-83**, *Supervisor Kurt Heise*

G. PUBLIC COMMENT (Limited to 3 Minutes)

H. BOARD COMMENTS

I. ADJOURNMENT

PLEASE TAKE NOTE: The Charter Township of Plymouth will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at all Township Meetings, to individuals with disabilities at the Meetings/Hearings upon two weeks' notice to the Charter Township of Plymouth by writing or calling the following: Human Resource Office, 9955 N Haggerty Road, Plymouth, MI 48170. Phone number (734) 354-3202 TDD units: 1-800649-3777 (Michigan Relay Services)

The public is invited and encouraged to attend all meetings of the Board of Trustees of the Charter Township of Plymouth

CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES MEETING

Tuesday, July 28, 2020

7:00 PM

PROPOSED MINUTES



Supervisor Heise called the meeting to order at 7 p.m.

PRESENT: Kurt Heise, Supervisor
Jerry Vorva, Clerk
Chuck Curmi, Trustee
Jack Dempsey, Trustee
Bob Doroshewitz, Trustee
Gary Heitman, Trustee

ABSENT: Mark Clinton, Treasurer (Excused)

ALSO PRESENT: Patrick Fellrath, Dir. Of Public Services
Dan Phillips, Fire Chief
Thomas Tiderington, Police Chief
Kevin Bennett, Township Attorney
Sue Brams, Admin. Asst. to Supv.
Alice Geletzke, Recording Secretary
7 Members of the Public

B. PLEDGE OF ALLEGIANCE – Led by Jerry Vorva, Clerk

A. APPROVAL OF AGENDA

Tuesday, July 28, 2020

Moved by Clerk Vorva and seconded by Trustee Heitman to approve the agenda for the Board of Trustees regular meeting of July 28, 2020. Ayes all.

D. APPROVAL OF CONSENT AGENDA

D.1 **Approval of Minutes:**
Regular Meeting - Tuesday, July 14, 2020

D.2 **Acceptance of Communications, Resolutions, Reports**
Building Department Monthly Report - June 2020
Fire Department Monthly Report - June 2020
Police Department Monthly Report - June 2020
Planning Department Monthly Report - June 2020
FOIA Monthly Report - Clerk's Office - June 2020
FOIA Monthly Report - Police Department - June 2020

CHARTER TOWNSHIP OF PLYMOUTH

BOARD OF TRUSTEES MEETING

Tuesday, July 28, 2020
7:00 PM

PROPOSED MINUTES



D.3 Approval of Township Bills:

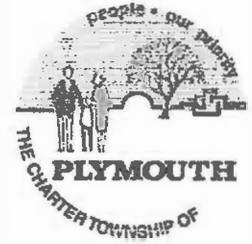
FUND	ACCT	ALREADY PAID	TO BE PAID	TOTAL:
General Fund	101	483,056.84	102,547.44	585,604.28
Solid Waste Fund	226	4,137.94	113,938.12	118,076.06
Improvement Revolving (Capital)	246	.00	.00	.00
Drug Forfeiture Fund	265	.00	.00	.00
Drug Forfeiture State	266	.00	.00	.00
Drug Forfeiture IRS	267	.00	.00	.00
Golf Course Fund	510	.00	.00	.00
Senior Transportation	588	4411.99	267.35	4679.34
Water/Sewer Fund	592	274,978.96	32,810.38	307,789.34
Trust and Agency	701	.00	.00	.00
Police Bond Fund	702	.00	.00	.00
Tax Pool	703	.00	.00	.00
Special Assessment Capital	805	.00	469,590.55	469,590.55
TOTALS:		766,585.73	719,153.84	1,485,739.57

CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES MEETING

Tuesday, July 28, 2020

7:00 PM

PROPOSED MINUTES



Moved by Trustee Heitman and seconded by Clerk Vorva to approve the consent agenda for the Board of Trustees regular meeting of July 28, 2020. Ayes all.

E. PUBLIC COMMENT (Limited to 3 Minutes)

George Belvich and Laurie Mayers, members of Pflag (an advocacy group for the LGBTQ+ community and their friends and families), had questions regarding the Police Department and their handling of racial issues, and made suggestions for improvement including training and budgetary considerations.

F. NEW BUSINESS

Copies of resolutions, attachments, and exhibits listed below are available in the Clerk's office for public perusal.

1. Western Townships Utilities Authority (WTUA) Annual Budget Approval, **Resolution #2020-07-28-71**, Aaron Sprague, WTUA

Aaron Sprague, WTUA Executive Director, addressed the Board and answered questions regarding the proposed budget which has been approved by the WTUA Board of Directors and must be approved by the Boards of Plymouth, Canton, and Northville Townships.

Moved by Trustee Heitman and seconded by Clerk Vorva to approve **Resolution #2020-07-28-71**, adopting the 2020-2021 WTUA Budget per the recommendations of the WTUA Executive Director. Ayes all on a roll call vote.

2. Great Lakes Water Authority/Western Townships Utilities Authority (GLWA/WTUA) Industrial Pretreatment Program Resolution, **Resolution #2020-07-28-72**, Patrick Fellrath, Director, Public Services, and Aaron Sprague, WTUA

WTUA Director Sprague explained the necessity for adopting updated IPP rules of the Great Lakes Water Authority (GLWA) because certain areas of the Township, pursuant to the sanitary sewer service agreement with the City of Plymouth, WTUA and Wayne County discharge wastewater flow to the GLWA sewer system.

Moved by Clerk Vorva and seconded by Trustee Heitman to approve **Resolution #2020-07-28-72**, adopting the Great Lakes Water Authority Industrial Pretreatment Rules for purposes of certain areas within the Township, as shown in Exhibit A of Resolution. Ayes all on a roll call vote.

CHARTER TOWNSHIP OF PLYMOUTH

BOARD OF TRUSTEES MEETING

Tuesday, July 28, 2020

7:00 PM

PROPOSED MINUTES



3. DPW Land Purchase Agreement Extension, **Resolution #2020-07-28-73**, *Supervisor Kurt Heise*

Leo Gonzales of Phoenix Management Holdings addressed the Board regarding work yet to be done with Wayne County regarding access and issues with the Wayne County Drain Commission and EGLE. Much of the work was delayed by the COVID crisis and is still slowed by it. This second extension would end December 31, 2020 rather than August 31, 2020.

Moved by Trustee Curmi and seconded by Trustee Heitman that the Township Board approve **Resolution #2020-07-28-73** authorizing the Township Supervisor and Clerk to sign the Real Estate Purchase Agreement Amendment with Phoenix Management Holdings, LLC, IV, for surplus Township parcels located at 46555 Port Street. Ayes all on a roll call vote.

4. Approval to Advertise for Lease of Excess Office Space at the DPW Building, *Supervisor Kurt Heise*

Supervisor Heise proposed leasing excess DPW office space to realize additional revenue. Operations would be sought who have limited parking and storage needs, and any offers received would come before the Board for approval.

Moved by Trustee Doroshewitz and seconded by Trustee Curmi to authorize the Supervisor and Clerk to advertise and seek responsive bids for the lease of surplus office space at the DPW building and to recommend final approval of a tenant to the Board of Trustees if a suitable tenant is found. Ayes all on a roll call vote.

5. Reinstatement pf COVID-Related Budget Cuts to Police Department, **Resolution #202-07-14-74**, *Supervisor Kurt Heise*

With the State's agreement to reimburse First Responders' salaries for April and May using Federal CARES Act Funding, Supervisor Heise noted his confidence that sufficient reimbursement will enable restoration of Police Department cuts made in May.

Trustee Curmi suggested some of those funds being earmarked for cyber-crimes, identification theft, and fraud.

Moved by Clerk Vorva and seconded by Trustee Heitman that the Plymouth Township Board of Trustees hereby adopt **Resolution #2020-07-28-74** authorizing the Finance Director to amend and appropriate the General Fund balance in the attached Police and Dispatch Capital Outlay expenditure accounts in the amount of \$409,429.00.

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES MEETING**

Tuesday, July 28, 2020

7:00 PM

PROPOSED MINUTES



ROLL CALL: AYES: Vorva, Heitman, Doroshewitz, Dempsey, Heise
 NAYS: Curmi
 EXCUSED: Clinton

G. PUBLIC COMMENT (Limited to 3 Minutes) - None

H. BOARD COMMENTS

Supervisor Heise indicated the next Board meeting will be held on August 25.

He updated Board members on the Salem Springs project in Salem Township and their attempts to run water and sewer lines to the project.

Clerk Vorva spoke on the 9200 absentee ballots issued, with a return thus far of 40%. He asked that the public return the ballots personally to Township Hall, placing them in one of the boxes provided, rather than relying on the mail. They must be received by the Clerk's office by 8 p.m. on Election Day, August 4.

Trustee Dempsey commented on the installation of the traffic light at McClumpha and Ann Arbor Roads. He asked that crossings be examined in the township.

He appreciated the public comments today, and he spoke on the strides made in diversity in the last four years.

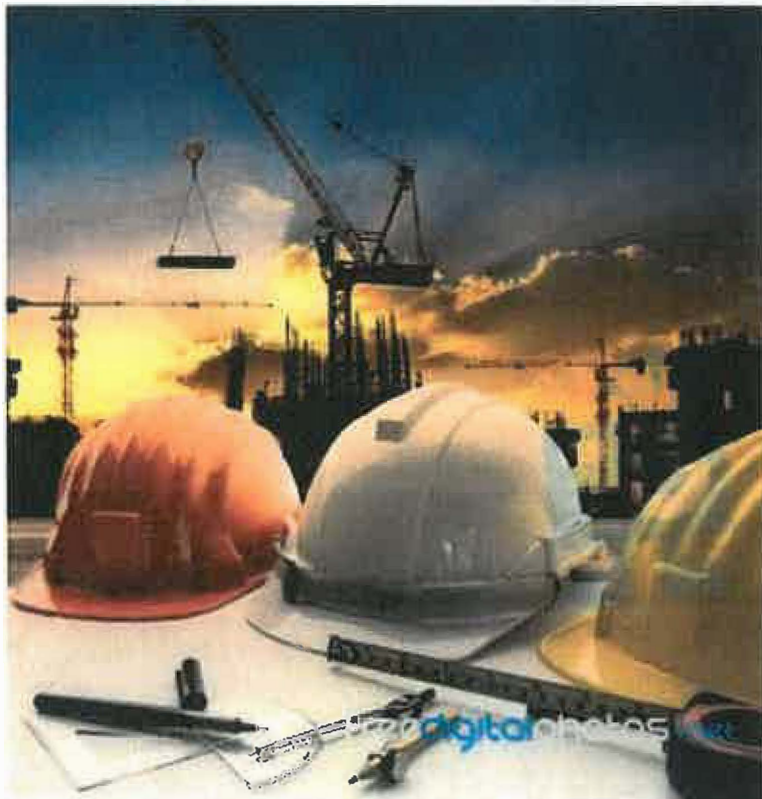
Trustee Curmi asked that something be posted regarding benchmarks made.

I. ADJOURNMENT

Moved by Trustee Heitman and seconded by Trustee Vorva to adjourn the meeting at 8:40 p.m. Ayes all.

Jerry Vorva, Clerk

CHARTER TOWNSHIP OF PLYMOUTH
DEPARTMENT OF BUILDING & CODE ENFORCEMENT



MONTHLY REPORT

July
2020
(Operating under COVID-19 orders)

Building Department 2020

<u>Classification</u>	Jan	Feb	Mar	April *	May*	June*	July*	Aug	Sept	Oct	Nov	Dec	2020 Totals
Total Building Permits	88	52	84	23	87	138	135						607
<u>Trade Permits</u>													
Electrical	38	28	18	2	13	36	29						164
Mechanical	49	60	30	10	41	60	71						321
Plumbing	16	13	11	2	24	23	21						110
Sewer & Water	7	3	1	1	9	5	3						29
Total Trade Permits	198	156	144	38	174	262	259	0	0	0	0	0	1231
<u>Miscellaneous</u>													
Special Inspections	1	0	0	0	0	1	0						2
Temp Certificate of Occupancy	4	4	1	0	0	2	1						12
Re-Occupancy	8	0	0	0	0	0	1						9
Plan Review	16	12	10	1	11	3	12						65
ZBA	1	0	4	0	1	1	3						10
Re-inspection fees	6	6	2	0	0	2	6						22
Vacant Land Registration	0	0	0	0	0	0	0						0
Total Miscellaneous	36	22	17	1	12	9	23	0	0	0	0	0	120
<u>Application Fee's</u>													
Building	66	47	76	22	75	131	131						548
Electrical	43	26	21	2	12	39	29						172
Mechanical	48	63	31	10	46	67	72						337
Plumbing	16	12	12	2	22	22	17						103
<u>License & Registration</u>													
Builders	7	7	6	4	10	25	25						84
Electrical	14	7	5	0	1	11	4						42
Mechanical	7	9	2	1	1	6	12						38
Plumbing	5	2	4	2	4	4	0						21
Total Misc/License/Application	242	195	174	44	183	314	313	0	0	0	0	0	1465
Grand Total	440	351	318	82	357	576	572	0	0	0	0	0	2696
<u>Staffing Levels</u>													
Chief Building Official	1	1	1	1	1	1	1	1	1	1	1	1	
Full Time Building Inspector	1	1	1	1	1	1	1	1	1	1	1	1	
Full Time Building Coordinator	1	1	1	1	1	1	1	1	1	1	1	1	
Full Time Building Administrator	1	1	1	1	1	1	1	1	1	1	1	1	
Part-time Time Ordinance Officer	1	1	1	1	1	1	1	1	1	1	1	1	

* = Operating under COVID-19 orders

New Commerical Building for 2020

Company Name	Property Address	Type of Work	Construction Value	Status	Month
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Total Construction Value

New Commercial Additions/Alterations for 2020

Company Name	Property Address	Type of Work	Construction Value	Status	Month
St John's monastery	44045 5 Mile RD	Wall anchors	22,250	Issued	January
Pella Windows	14492 Sheldon #310	Tenant Finish	62,000	Issued	January
Adient COE	47700 Halyard	Phase 3J remodel	400,000	Issued	January
Adient COE	47700 Halyard	Phase 3G remodel	60,000	Issued	January
Adient COE	47700 Halyard	Phase 3E remodel	1,200,000	Issued	January
Elmos	47023 5-Mile RD	Tenant Finish	136,000	Issued	January
Rivian	411000 Plymouth #310 & 370	Tenant Finish	80,000	Issued	January
General Plymouth	11333 General Dr #125	Tenant Finish	5,000	Issued	February
General Plymouth	11333 General Dr #120	Tenant Finish	5,000	Issued	February
General Plymouth	11333 General Dr #110	Tenant Finish	5,000	Issued	February
General Plymouth	11333 General Dr #100	Tenant Finish	5,000	Issued	February
Rivian	13250 Haggerty	Remodel Phase IV	3,000,000	Issued	March
Atlas Tube	13113 Eckles #7-A	2 additions	1,900,000	Issued	April *
Temporary Concrete Batch Plant	939 Mill	SAD concrete	50,000	Issued	May*
Kroger	44525 Ann Arbor RD	Interior remodel	150,000	Issued	May*
Fire Station 2	41212 Wilcox	Concrete Floor	60,000	Issued	May*
DVS Technology	44099 Plymouth Oaks	Tenant finish	50,000	Issued	May*
Finlan & Son Insurance	47784 Hayard	Tenant finish	100,000	Issued	May*
Rivian	13250 Haggerty	Spray Booth	38,000	Issued	June*
Amazon	9075 Haggerty	Interior remodel	50,000	Issued	July*
WWC -gun club	6700 Napier	Exterior remodel	68,900	Issued	July*
Webasto	14200 Haggerty RD	Interior wall	260,000	Issued	July*
Chase Bank	235 Sheldon	Parking lot resurface	462,000	issued	July*
Phoenix Mill	15000 Edward Hines	Vestibule & elevator	75,000	Issued	July*

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Total Construction Value			8,243,150		
Grand Total Construction Value			<u>8,243,150</u>		

* Operating on COVID-19 orders

Residential Housing 2020

<u>Single Family Detached</u>				
	<u>Total #</u>	<u>Total #</u>	<u>Total</u>	<u>Total</u>
	<u>Buildings</u>	<u>Dwelling</u>	<u>Value</u>	<u>Square</u>
			<u>Construction</u>	<u>Feet</u>
January	4	4	1,422,199	10,166
February	1	1	384,568	2,805
March	0			
April	0			
May	1	1	824,184	6,298
June	0			
July	2	2	702,929	5,018
August				
September				
October				
November				
December				
Totals	8	8	\$3,333,880	24,287

<u>Single Family Attached (Townhouses/ Row Houses)</u>				
	<u>Total #</u>	<u>Total #</u>	<u>Total</u>	<u>Total</u>
	<u>Buildings</u>	<u>Dwelling</u>	<u>Value</u>	<u>Square</u>
			<u>Construction</u>	<u>Feet</u>
January	0			
February	0			
March	0			
April	0			
May	0			
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
Totals	0	0	\$ -	-

<u>Two-Family Buildings (Duplex)</u>				
	<u>Total #</u>	<u>Total #</u>	<u>Total</u>	<u>Total</u>
	<u>Buildings</u>	<u>Dwelling</u>	<u>Value</u>	<u>Square</u>
			<u>Construction</u>	<u>Feet</u>
January	0			
February	0			
March	0			
April	0			
May	0			
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
Totals	0	0	\$ -	-

<u>Three-or-more Family Building (Apartments/Stacked Condos)</u>				
	<u>Total #</u>	<u>Total #</u>	<u>Total</u>	<u>Total</u>
	<u>Buildings</u>	<u>Dwelling</u>	<u>Value</u>	<u>Square</u>
			<u>Construction</u>	<u>Feet</u>
January	0			
February	0			
March	0			
April	0			
May	0			
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
Totals	0	0	\$ -	-

	<u>Total #</u>	<u>Total #</u>	<u>Value</u>	<u>Square</u>
	<u>Buildings</u>	<u>Dwelling</u>	<u>Construction</u>	<u>Feet</u>
Totals all categories	8	8	\$ 3,333,880	24,287

Plymouth Township, Michigan
DODGE REPORT
RESIDENTIAL BUILDING PERMIT
ISSUANCE REPORT
Plymouth Township

July 2020

Building

Date Issued	Parcel Address	Category	Contractor Information	Const. Value
07/16/20 PB20-0346	9114 MARLOWE	b. Single-family, attached and detache	Definitive Building Company LLC 1330 Goldsmith Plymouth MI 48170 (734) 634 5125	\$339,669
07/22/20 PB20-0305	11774 Tuscany CT	b. Single-family, attached and detache	M/I Homes of Michigan LLC 40950 Woodward #203 Bloomfield Hills MI 48304 (248) 221 5000	\$363,260

Certificate of Occupancy List

08/04/2020

1/1

CofO Number	Status	Issued To	Address	CofO and Permit Dates	
OF20-0022	ISSUED (FINAL)	MODERN METHOD CONST	8840 Canton Center RD	<u>CO Date Apply:</u> 07/01/2020	<u>CO Date Finaled:</u> 07/01/2020
<u>Permit Number</u> PB18-0944	<u>Applicant Name</u> MODERN METHOD CONSTRUCTION		<u>Contractor</u> MODERN METHOD CON	<u>Permit Date Apply:</u> 10/02/2018	<u>Permit Date Issued:</u> 0/18/2018
OF20-0023	ISSUED (FINAL)	POLYTEC INC. A CALIFOR	47909 Halyard	<u>CO Date Apply:</u> 07/27/2020	<u>CO Date Finaled:</u> 07/27/2020
<u>Permit Number</u> PB17-0660	<u>Applicant Name</u> Lakeshore Contracting Services LLC		<u>Contractor</u> Lakeshore Contracting Servic	<u>Permit Date Apply:</u> 07/17/2017	<u>Permit Date Issued:</u> 2/12/2017
OF20-0024	ISSUED (FINAL)	Burroughs Building	13200 Haggerty RD	<u>CO Date Apply:</u> 07/30/2020	<u>CO Date Finaled:</u> 07/30/2020
<u>Permit Number</u> PB19-0997	<u>Applicant Name</u> JCS CONSTRUCTION SERVICES, LLC		<u>Contractor</u> JCS CONSTRUCTION SER	<u>Permit Date Apply:</u> 09/25/2019	<u>Permit Date Issued:</u> 0/28/2019

All Records

Co.DateFinaled Between 7/1/2020 12:00:00 AM AND

7/31/2020 11:59:59 PM AND

Co.Status = ISSUED (FINAL)

Number of CofO's:

3



Revenue Breakdown Report

Page: 1 of 3:

08/04/2020

Filter: All Records, Transaction.DateToPostOn in <Previous month> [07/01/20 - 07/31/20] AND
 Transaction.TransactionNumber Not = 67,079 AND
 Transaction.TransactionNumber Not = 67,078

Unit Totals		
Unit Name	Records	Revenue
	259	95,518.25
TOTAL	259	95,518.25

Record Type Totals		
Unit	Records	Revenue
Permit	259	95,518.25
UNIT TOTAL:	259	95,518.25

Record Type Breakdown		
Unit	Records	Revenue
Record Type - Permit		
Building	135	62,419.00
Electrical	29	8,303.00
Mechanical	71	10,596.25
Plumbing	21	1,725.00
Sewer & Water	3	12,475.00
TOTAL:	259	95,518.25

83.043



Plymouth Township Fire Department

Monthly Report

July 2020

Response Information:

The Plymouth Township Fire Department responded to **257** emergencies this month.

There was an average of **8.29** runs per day this month.

PTFD's average response time was **5 minutes 44 seconds** to the scene. This includes all responses including non-emergent.

Mutual Aid:

Plymouth Township Fire Department is a member of the Western Wayne County Mutual Aid Association.

	Mutual Aid Received	Mutual Aid Given
Canton	3	8
Northville City	4	2
Northville Township	6	2
Livonia	2	
HVA	2	

Fire Loss:

There were **7** fires this month that accounted for **\$202,400.00** worth of damage to possessions and property. We prevented the destruction of **\$11,051,500.00** in property.

EMS Information:

HVA transported **93** patients to the hospital.

Plymouth Township Fire transported **19** patients to the hospital.

Plymouth transports billed out **\$12,812.00** this month, received **\$14,415.01** and have **\$12,046.04** in outstanding bills over 180 days.

Fire Prevention:

Plymouth Township Fire Department provided **79** comprehensive fire inspections to businesses within Plymouth Township.

In January run a 12 month/yearend report of previous year

Reports Included:

CLEMIS Reports

Incidents Section

- Incident Summary by Incident type
 - Incident Type
 - Type count
 - Property Loss
 - Property Value
- Mutual Aid by Department
 - Mutual aid Received
 - Mutual Aid Given

Local Section

- Fire Department Response Times
 - Turnout Time
 - Response Time

Health EMS

Agency Productivity

- Agency Activity Summary
 - Patients Transported by HVA
 - Patients Transported by PTFD

Billing Summary

Inspection Report

Total count for Public Education – Review Fire Modules Calendar

Yearend - include total training hours

Incident Type Count

For Dates 7/1/20 - 7/31/20



Incident Type and Description	Count	% Type / % Total
111 - Building fire	2	28.57 %
113 - Cooking fire, confined to container	3	42.86 %
118 - Trash or rubbish fire, contained	1	14.29 %
160 - Special outside fire, other	1	14.29 %
Total - Fires	7	2.72 %
320 - Emergency medical service, other	1	0.60 %
321 - EMS call, excluding vehicle accident with injury	155	92.26 %
321C - EMS call, possible COVID-19	2	1.19 %
322 - Vehicle accident with injuries	9	5.36 %
324 - Motor vehicle accident with no injuries	1	0.60 %
Total - Rescue & Emergency Medical Service Incidents	168	65.37 %
411 - Gasoline or other flammable liquid spill	1	5.00 %
412 - Gas leak (natural gas or LPG)	1	5.00 %
440 - Electrical wiring/equipment problem, other	2	10.00 %
441 - Heat from short circuit (wiring), defective/worn	1	5.00 %
444 - Power line down	14	70.00 %
445 - Arcing, shorted electrical equipment	1	5.00 %
Total - Hazardous Conditions (No fire)	20	7.78 %
500 - Service Call, other	2	13.33 %
550 - Public service assistance, other	1	6.67 %
554 - Assist invalid	12	80.00 %
Total - Service Call	15	5.84 %
600 - Good intent call, other	1	5.88 %
611 - Dispatched & cancelled en route	16	94.12 %
Total - Good Intent Call	17	6.61 %
700 - False alarm or false call, other	12	46.15 %
735 - Alarm system sounded due to malfunction	2	7.69 %
736 - CO detector activation due to malfunction	3	11.54 %
740 - Unintentional transmission of alarm, other	3	11.54 %
741 - Sprinkler activation, no fire - unintentional	1	3.85 %
743 - Smoke detector activation, no fire - unintentional	2	7.69 %
744 - Detector activation, no fire - unintentional	1	3.85 %
745 - Alarm system sounded, no fire - unintentional	1	3.85 %
746 - Carbon monoxide detector activation, no CO	1	3.85 %
Total - False Alarm & False Call	26	10.12 %
9001 - Dispatch Error	4	100.00 %

Incident Type Count

Incident Type and Description	Count	% Type / % Total
Total - Special Incident Type	4	1.56 %
	257	

Municipal Response Times Report

For Dates Beginning 7/1/20 Ending 7/31/20

Incident Types selected for analysis: All

For All Priority Types

Time in Minutes	Alarm to Dispatch	Percent Total	Cumulative Responses	Percent	Dispatch to Enroute	Percent Total	Cumulative Responses	Percent	Enroute to Arrival	Percent Total	Cumulative Responses	Percent	Alarm to Arrival	Percent Total	Cumulative Responses	Percent
0 - 1	116	48.33	116	48.33	70	30.30	70	30.30	15	6.79	15	6.79	4	1.75	4	1.75
1 - 2	92	38.33	208	86.67	99	42.86	169	73.16	24	10.86	39	17.65	3	1.31	7	3.06
2 - 3	24	10.00	232	96.67	41	17.75	210	90.91	40	18.10	79	35.75	8	3.49	15	6.55
3 - 4	6	2.50	238	99.17	18	7.79	228	98.70	47	21.27	126	57.01	16	6.99	31	13.54
4 - 5	1	0.42	239	99.58	2	0.87	230	99.57	27	12.22	153	69.23	24	10.48	55	24.02
5 - 6	1	0.42	240	100.00	1	0.43	231	100.00	25	11.31	178	80.54	44	19.21	99	43.23
6 - 7	0	0.00	240	100.00	0	0.00	231	100.00	14	6.33	192	86.88	39	17.03	138	60.26
7 - 8	0	0.00	240	100.00	0	0.00	231	100.00	11	4.98	203	91.86	28	12.23	166	72.49
8 - 9	0	0.00	240	100.00	0	0.00	231	100.00	5	2.26	208	94.12	19	8.30	185	80.79
9 - 10	0	0.00	240	100.00	0	0.00	231	100.00	3	1.36	211	95.48	19	8.30	204	89.08
10 +	0	0.00	240	100.00	0	0.00	231	100.00	10	4.52	221	100.00	25	10.92	229	100.00

Incident
Total:

240

Average Times per Incident

Average PSAP Processing Time: 1 minute(s) 4 second(s)
(Alarm to Dispatch)

Percent less than or equal to 60 Seconds: 48.33

Percent less than or equal to 90 Seconds: 72.92

Average Fire Department Turn Out Time: 1 minute(s) 34 second(s)
(Dispatch to Enroute)

Average Fire Department Turn Out and Travel Time: 5 minute(s) 44 second(s)
(Dispatch to Arrive)

Average Municipal Response Time: 6 minute(s) 49 second(s)
(Alarm to Arrive)

Percentile Response Times in A

PSAP Processing Time less than
(Alarm to Dispatch)

Fire Department Turn Out Time
(Dispatch to Enroute)

Fire Department Travel Time less
(Enroute to Arrive)

5477

Listing of Mutual Aid Responses by Mutual Aid Department



Time Period: 7/1/20 - 7/31/20

Department: Canton Twp FD

Mutual aid received

200001416	7/2/20 10:47:09AM	1	08204	41464 E ANN ARBOR RD
200001456	7/8/20 3:06:59PM	1	08204	51138 PLYMOUTH VALLEY DR
200001564	7/20/20 6:27:54PM	1	08204	9120 GENERAL DR

Subtotal Mutual aid received 3

Mutual aid given

200001455	7/8/20 12:36:05PM	3	08204	1150 S CANTON CENTER
200001472	7/10/20 2:35:04PM	3	08204	7025 N LILLEY
200001487	7/12/20 12:43:54PM	3	08204	41640 FORD
200001498	7/14/20 8:06:29PM	3	08204	1897 WENTWORTH
200001506	7/15/20 1:24:40PM	3	08204	8121 N LILLEY
200001586	7/23/20 12:48:53PM	3	08204	492 CHERRY HILL POINTE
200001590	7/23/20 7:09:25PM	3	08204	4134 STRATHMORE
200001599	7/25/20 11:17:49AM	3	08204	44896 TRAILS CT

Subtotal Mutual aid given 8

Subtotal Canton Twp FD 11

Department: City of Northville FD

Mutual aid received

200001457	7/8/20 3:08:52PM	1	08232	8811 BRIARWOOD DR
200001465	7/9/20 5:18:49PM	1	08232	50328 VAN BUREN DR
200001517	7/16/20 7:23:49PM	1	08232	45601 FIVE MILE RD
200001564	7/20/20 6:27:54PM	1	08232	9120 GENERAL DR

Subtotal Mutual aid received 4

Automatic aid given

200001531	7/18/20 9:40:42AM	4	08232	620 STARKWEATHER
200001534	7/18/20 5:40:20PM	4	08232	253 S UNION

Subtotal Automatic aid given 2

Subtotal City of Northville FD 6

Department: Huron Valley Ambulance

Mutual aid received

Time Period: 7/1/20 - 7/31/20

200001416	7/2/20 10:47:09AM	1	HVA	41464 E ANN ARBOR RD
200001634	7/29/20 10:08:38AM	1	HVA	40548 FIRWOOD
Subtotal Mutual aid received			2	
Subtotal Huron Valley Ambulance			2	

Department: Livonia Fire & Rescue**Mutual aid received**

200001518	7/16/20 8:03:13PM	1	08229	39700 E ANN ARBOR RD
200001622	7/27/20 10:24:59PM	1	08229	ECKLES RD
Subtotal Mutual aid received			2	
Subtotal Livonia Fire & Rescue			2	

Department: Northville Twp FD**Mutual aid received**

200001415	7/2/20 10:41:18AM	1	08255	STATE HWY
200001416	7/2/20 10:47:09AM	1	08255	41464 E ANN ARBOR RD
200001457	7/8/20 3:08:52PM	1	08255	8811 BRIARWOOD DR
200001465	7/9/20 5:18:49PM	1	08255	50328 VAN BUREN DR
200001517	7/16/20 7:23:49PM	1	08255	45601 FIVE MILE RD
200001564	7/20/20 6:27:54PM	1	08255	9120 GENERAL DR
Subtotal Mutual aid received			6	

Mutual aid given

200001422	7/3/20 11:09:21AM	3	08255	15556 BAY HILL DR
200001598	7/24/20 6:36:41PM	3	08255	16100 HAGGERTY RD
Subtotal Mutual aid given			2	
Subtotal Northville Twp FD			8	

Total	22
--------------	-----------

Incident Summary by Incident Type

For Dates: 7/1/20 - 7/31/20



Incident Type	Incident Count	Average Response Time	Total Loss	Total Value
Shift: A				
Station: ST1				
Fires	2	00:06:25	\$ 48,000.00	\$ 3,400,000.00
Rescue & Emergency Medical Service Incidents	23	00:05:41	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	6	00:06:14	\$ 0.00	\$ 0.00
Good Intent Calls	3	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	1	00:05:51	\$ 0.00	\$ 0.00
Total for Station: ST1	35	00:05:20	\$ 48,000.00	\$ 3,400,000.00
Station: ST2				
Rescue & Emergency Medical Service Incidents	20	00:07:01	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	2	00:09:51	\$ 0.00	\$ 0.00
Service Calls	3	00:06:33	\$ 0.00	\$ 0.00
False Alarm & False Calls	1	00:04:30	\$ 0.00	\$ 0.00
Special Incident Types	2	00:02:29	\$ 0.00	\$ 0.00
Total for Station: ST2	28	00:06:45	\$ 0.00	\$ 0.00
Station: ST3				
Rescue & Emergency Medical Service Incidents	12	00:07:57	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	6	00:05:45	\$ 0.00	\$ 0.00
Good Intent Calls	5	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	2	00:14:59	\$ 0.00	\$ 0.00
Total for Station: ST3	25	00:06:24	\$ 0.00	\$ 0.00
Total for Shift: A	88.00	00:06:05	\$ 48,000.00	\$ 3,400,000.00
Shift: B				
Station: ST1				
Fires	4	00:05:09	\$ 153,400.00	\$ 7,651,500.00
Rescue & Emergency Medical Service Incidents	26	00:06:50	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	2	00:06:42	\$ 0.00	\$ 0.00
Service Calls	1	00:06:54	\$ 0.00	\$ 0.00
Good Intent Calls	2	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	4	00:03:46	\$ 0.00	\$ 0.00
Total for Station: ST1	39	00:05:59	\$ 153,400.00	\$ 7,651,500.00
Station: ST2				
Rescue & Emergency Medical Service Incidents	13	00:08:08	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	5	00:06:24	\$ 0.00	\$ 0.00
Special Incident Types	1	00:00:01	\$ 0.00	\$ 0.00
Total for Station: ST2	20	00:06:54	\$ 0.00	\$ 0.00
Station: ST3				
Rescue & Emergency Medical Service Incidents	21	00:07:25	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	3	00:08:23	\$ 0.00	\$ 0.00
Service Calls	4	00:11:47	\$ 0.00	\$ 0.00

8/17

Incident Summary by Incident Type

Incident Type	Incident Count	Average Response Time	Total Loss	Total Value
Good Intent Calls	3	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	6	00:08:06	\$ 0.00	\$ 0.00
Total for Station: ST3	37	00:07:29	\$ 0.00	\$ 0.00
<hr/>				
Total for Shift: B	96.00	00:06:45	\$ 153,400.00	\$ 7,651,500.00
<hr/>				
Shift: C				
Station: ST1				
Rescue & Emergency Medical Service Incidents	22	00:04:58	\$ 0.00	\$ 0.00
Service Calls	2	00:10:04	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	2	00:05:04	\$ 0.00	\$ 0.00
Total for Station: ST1	27	00:05:10	\$ 0.00	\$ 0.00
<hr/>				
Station: ST2				
Rescue & Emergency Medical Service Incidents	11	00:06:01	\$ 0.00	\$ 0.00
False Alarm & False Calls	1	00:04:31	\$ 0.00	\$ 0.00
Total for Station: ST2	12	00:05:54	\$ 0.00	\$ 0.00
<hr/>				
Station: ST3				
Fires	1	00:06:30	\$ 1,000.00	\$ 0.00
Rescue & Emergency Medical Service Incidents	20	00:08:05	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	1	00:04:08	\$ 2,000.00	\$ 5,350,000.00
Service Calls	5	00:06:44	\$ 0.00	\$ 0.00
Good Intent Calls	2	00:04:27	\$ 0.00	\$ 0.00
False Alarm & False Calls	4	00:07:13	\$ 0.00	\$ 0.00
Special Incident Types	1	00:00:01	\$ 0.00	\$ 0.00
Total for Station: ST3	34	00:07:10	\$ 3,000.00	\$ 5,350,000.00
<hr/>				
Total for Shift: C	73.00	00:06:13	\$ 3,000.00	\$ 5,350,000.00
<hr/>				
Total	257.00	00:06:22	\$ 204,400.00	\$ 16,401,500.00

Agency Activity Summary

Plymouth Township Fire Dept

Agency: Plymouth Township Fire Dept | Run Disposition: All Transports, Treated and Transferred Care

Total Number of ePCRs: 112

Total Number of Incidents: 112

By Branch

01 Station 1 = 39

02 Station 2 = 37

03 Station 3 = 36

Run Disposition

	#	%		#	%
Treated/Transported	19	17.0%	Dead Prior To Arrival	N/A	N/A
Treated / Transferred Care	93	83.0%	Dead After Arrival	N/A	N/A
Treated/No Transport (AMA)	N/A	N/A	Treat/Transported by Private Veh.	N/A	N/A
Treated / No Transport (Per Protocol)	N/A	N/A	Assist	N/A	N/A
Transported / Refused Care	N/A	N/A	Other	N/A	N/A
No Transport / Refused Care	N/A	N/A	No Patient Found	N/A	N/A
Cancelled	N/A	N/A			
Left Blank	N/A	N/A			

Run Type

	#	%		#	%
Emergency Runs	112	100.0%	Non-Emergency Runs	N/A	N/A
Stand By	N/A	N/A	Stand By	N/A	N/A
Mutual Aid	2	1.8%	Mutual Aid	N/A	N/A
Interfacility	N/A	N/A	Interfacility	N/A	N/A
Intercept	N/A	N/A	Intercept	N/A	N/A

Emergency Runs (Scheduled)

	N/A	N/A	Non-Emergency Runs (Scheduled)	N/A	N/A
Stand By	N/A	N/A	Stand By	N/A	N/A
Mutual Aid	N/A	N/A	Mutual Aid	N/A	N/A
Interfacility	N/A	N/A	Interfacility	N/A	N/A
Intercept	N/A	N/A	Intercept	N/A	N/A

Emergency Type Left Blank: 0

Runs by Unit

Unit	Total Runs	Treat/ Transp	Treat/ Transfer	Treat/No Transp(AMA)	Treat/No Transp(PP)	Transp/ Ref. Care	Cancelled	Dead Prior Arr	Dead After Arr	T/T Priv Veh	No Trans/ Ref. Care	Assist	Other	No Pat. Found
RES1	38	10	28	0	0	0	0	0	0	0	0	0	0	0
RES2	40	6	34	0	0	0	0	0	0	0	0	0	0	0
RES3	34	3	31	0	0	0	0	0	0	0	0	0	0	0
Total	112	19	93	0	0	0	0	0	0	0	0	0	0	0

Runs by Service Level

Dispatched Service Level	#	%	Recommended Service Level	#	%
BLS	6	5.4%	BLS	87	77.7%
ALS	106	94.6%	ALS1	23	20.5%
SCT	N/A	N/A	ALS2	2	1.8%
			SCT	N/A	N/A
			Rotary Wing	N/A	N/A
			Fixed Wing	N/A	N/A

10/8/17

Runs by Insurance Type with Service Level *(Multiple insurance types may have**been marked on a run)*

Type	BLS	%	ALS1	%	ALS2	%	SCT	%Rotary Wing	%Fixed Wing	%	Total	%
None	87	77.7%	23	20.5%	2	1.8%	N/A	N/A	N/A	N/A	112	100.0%

Runs by Primary PI (Note - Primary PI is based on the ICD-10 priority setup in HealthEMS)

Description	#	%
Allergic Reaction	3	2.7%
Alt. Level Conscious	6	5.4%
Anxiety	2	1.8%
Back Pain (No Trauma)	2	1.8%
Behavioral Disorder	1	0.9%
CVA/Stroke	4	3.6%
Cardiac Symptoms	3	2.7%
Chest Pain	5	4.5%
Dehydration Symp.	1	0.9%
Diabetic Symptoms	3	2.7%
Dizziness	3	2.7%
Dyspnea-SOB	11	9.8%
Flu Symptoms	2	1.8%
GI -Diarrhea	1	0.9%
Headache (no trauma)	1	0.9%
Monitoring Required	2	1.8%
Nose Bleed	1	0.9%
Psychiatric Emerg.	3	2.7%
Seizure	7	6.3%
Syncope/Fainting	2	1.8%
Trauma Injury	18	16.1%
Unconscious	1	0.9%
Unknown Medical	4	3.6%
Urinary Bleeding	1	0.9%
Urination Problem	1	0.9%
Vomiting	2	1.8%
Weakness	19	17.0%
Left Blank	3	2.7%
Total	112	100.0%

11/8/17

Runs by Dispatch (EMD) Code

<u>Description</u>	<u>#</u>	<u>%</u>
1 Abdominal Pain	1	0.9%
10 Chest Pain [non-traumatic]	3	2.7%
11 Choking	1	0.9%
12 Convulsions/Seizures	8	7.1%
13 Diabetic	3	2.7%
17 Falls	17	15.2%
18 Headache	1	0.9%
2 Allergies/Envenomations	1	0.9%
21 Hemorrhage/Lacerations	1	0.9%
25 Psychiatric/Abnormal behavior/Suicide Attempt	3	2.7%
26 Sick Person	34	30.4%
28 Stroke [CVA]	3	2.7%
29 Traffic/Accidents	6	5.4%
3 Animal Bites/Attacks	1	0.9%
30 Traumatic Injuries	2	1.8%
31 Unconscious/Fainting	10	8.9%
32 Unknown Problem	3	2.7%
5 Back Pain	1	0.9%
6 Breathing Problems	9	8.0%
88 Not applicable	2	1.8%
99 Unknown	2	1.8%
<i>Left Blank</i>	0	0.0%
<i>Total</i>	112	100.0%

12/4/17

Transport From (Category)

	<u>#</u>	<u>%</u>
--Left Blank--	112	100.0%
<i>Total</i>	112	100.0%

Transport From (Facility)

	<u>#</u>	<u>%</u>
--Left Blank--	112	100.0%
<i>Total</i>	112	100.0%

Transport To (Destination Facility)

	<u>#</u>	<u>%</u>
St Mary Livonia ER	88	78.6%
St Joe Ann Arbor ER	6	5.4%
Providence Park ER-Novi	5	4.5%
UNIVERSITY OF MICHIGAN ER	5	4.5%
Henry Ford West Bloomfield	4	3.6%
C.S. Mott Children's Hospital	2	1.8%
Beaumont Farmington Hills (Botsford)	1	0.9%
No transport	1	0.9%
<i>Total</i>	112	100.0%

AGING SUMMARY
PLYMOUTH MONTHLY AGING REPORT
REPORT AS OF 7/31/2020

<u>ID</u>	<u>Description</u>	<u>Calls</u>	<u>Current</u>	<u>31 to 60</u>	<u>61 to 90</u>	<u>91 to 120</u>	<u>121 to 150</u>	<u>151 to 180</u>	<u>Over 180</u>
APPL	APPEAL PATIENT 30	1	0	0	722	0	0	0	0
BCBS	ELECT BCBS	1	0	0	0	0	0	686	0
CAIP	PAPER MEDICAID R	4	560	0	0	0	0	0	1870.8
CARE	ELECT - MEDICARE	5	1994.4	584	0	675.2	0	0	0
CAREBL	ELECT MEDICARE P	4	1529.2	0	0	0	0	0	1296.4
COMP	PAPER WORK COM	1	0	0	0	0	0	0	722
CRED	MHR REFUND CREDI	2	0	0	-516	0	0	0	-25
FIREINS	FIRE RECOVERY 15	3	0	0	0	0	0	0	675
INSU	PAPER INS PRIMAR	8	1588	1106	0	0	0	0	2396.7
NEIC	ELECT INS NEIC	3	722	0	0	0	0	830	878
NEICCAID	ELECT MEDICAID NE	3	2088	0	0	0	0	0	0
PRIV	REQUEST PRIVATE	1	573.2	0	0	0	0	0	0
PRV2	PAPER - PRIVATE P	32	3757.2	8558.54	0	253.94	615.34	0	2047.53
REVIEW	REVIEW	11	0	686	0	400	1661.5	1342.03	1260.61
SINS	PAPER INS SECOND	4	0	365.9	0	0	98.92	0	0
TIME	TIME PAY ACCOUNT	2	0	0	0	0	0	0	924
Totals		85	12812	11300.44	206	1329.14	2375.76	2858.03	12046.04

CHARGE SUMMARY
PLYMOUTH MONTHLY CHARGE REPORT
REPORT AS OF 7/31/2020

<u>ID</u>	<u>Description</u>	<u>QTY</u>	<u>QTY %</u>	<u>Charge</u> <u>Count</u>	<u>Charge</u> <u>Count</u>	<u>Charges</u>	<u>Total Charge</u> <u>%</u>
427	ALS EMERGENCY	11	6.98	11	28.95	7150	55.81
429	BLS EMERGENCY	8	5.08	8	21.05	4000	31.22
0425MC	CMS MILEAGE	74.5	47.3	11	28.95	894	6.98

14817

Total

722
686
2430.8
3253.6
2825.6
722
-541
675
5090.7
2430
2088
573.2
15232.55
5350.14
464.82
924
<hr/>
42927.41

15 08 17

425	MILEAGE	64	40.63	8	21.05	768	5.99
		-----	-----			-----	
TOTALS		157.5		38		12812	

CREDIT SUMMARY
PLYMOUTH MONTHLY CREDIT REPORT
REPORT AS OF 7/31/2020

<u>ID</u>	<u>Description</u>	<u>Credits</u>	<u>QTY %</u>	<u>Amount</u>	<u>Amount %</u>
2	Adjustment	15	19.23	1954.97	13.56
1	Other Payment	48	61.54	7229.78	50.15
6	Patient Payment	6	7.69	2211.76	15.34
5	Write Off	9	11.54	3018.5	20.94
		-----	-----		
Totals For All		78		14415.01	

160817

Inspection Volume

8/11/2020 11:34:54 AM

Filters:

- Inspection Source: **Internal Department Only**
- Start Date: **7/1/2020 12:00:00 AM**
- End Date: **7/31/2020 11:59:59 PM**
- Inspector: **-all-**
- Occupancy Type: **-all-**
- IFC Occupant Class: **-all-**
- Occupancy Number: **-all-**
- Zip Code: **-all-**
- Address: **-all-**
- Street Name: **-all-**
- Inspection Type: **-all Fire Safety types-**
- Section Number: **-all-**

Volume by Inspector

Phillips, Daniel	# of Inspections ¹	Violations Cited	Occupant Sq. Ft.
Re-inspect ^{FS}	2		0
Fire Alarm Test (2)			
Total ²			
Total	2	0	0

Randall, Jeff	# of Inspections ¹	Violations Cited	Occupant Sq. Ft.
2-Year ^{FS}	9		67,012
3-Year ^{FS}	26		34,163
Annual ^{FS}	13		65,300
Final - Occupancy ^{FS}	1		3,000
Fire Alarm Test ^{FS}	3		178,000
Reoccupancy ^{FS}	2		7,100
Semi-Annual (twice a year) ^{FS}	21		197,186
Suppression System ^{FS}	2		96,812
Total	77	7	648,573

Totals

	# of Inspections ¹	Violations Cited	Violations Cleared ²	Violations Remaining	Occupant Sq. Ft.
2-Year ^{FS}	9				67,012
3-Year ^{FS}	26				34,163
Annual ^{FS}	13				65,300
Final - Occupancy ^{FS}	1				3,000
Fire Alarm Test ^{FS}	3				178,000
Re-inspect ^{FS}	2				0
Reoccupancy ^{FS}	2				7,100
Semi-Annual (twice a year) ^{FS}	21				197,186
Suppression System ^{FS}	2				96,812
Total⁵	79	7	0	7	648,573

¹This is actually a count for the inspection type. A single inspection with two types will total as two not one.

²Cleared violations from re-inspections outside the date range ARE included if initial inspection falls within date range.

³One re-inspection can encompass multiple inspection types - this is why the re-inspection type-specific total is frequently greater than the # of inspections.

^{FS}Fire Safety Inspection.

⁵Filtering out portal inspections can cause violations cited to be less than violations cleared (violation cited count comes from both department and portal inspections, while violations cleared only come from department inspections).

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MCKENNA

Memorandum

TO: Board of Trustees and Planning Commission
Charter Township of Plymouth, Michigan

FROM: Laura Haw, AICP, NCI
Natalie Bond

SUBJECT: Planning, Zoning, Design and Economic Development Report – July, 2020

DATE: August 7, 2020

McKenna provides day-to-day assistance to the Township, applicants, and public regarding zoning, planning and economic development matters, including on-site office hours every morning and on an as-needed basis. The following is McKenna's monthly report to the Township.

PLANNING, ZONING, DESIGN AND ECONOMIC DEVELOPMENT ACTIVITY

As part of our services to the Township, McKenna reviews Planning Commission applications and plans and provides recommendations on long range planning, land use, zoning and design. There are also a number of administrative site plans / projects that McKenna reviews and administers. The following is a summary of current and ongoing site plans, special land uses, rezonings, text amendments and land reconfigurations.

Planning and Zoning Active Projects

PROJECT	BACKGROUND	STATUS / NEXT STEPS
#2262 <i>Plymouth Park & Eats</i> 39411 Schoolcraft	Applicant submitted a revised site plan for Planning Commission consideration at the December 18, 2019 meeting; approved, with conditions.	Final Stamp pending. On-site landscape inspection pending.
#2271 <i>Quick Pass Car Wash</i>	Applicant received, revised, final site plan approval, with conditions, by the Planning Commission.	Applicant in process of acquiring demolition permit and submitting revised site plans.
#2306 <i>41661 Plymouth Hillside Residences</i>	Planned Unit Development for 88 residential units; a revised development plan was recommended to the Board of Trustees on January 16, 2019. Pending Township Attorney review, Wayne County permits, and engineering review and all outstanding items must be addressed.	On February 11, 2020 a 6-month extension, with a 3-month progress report was granted by the Board of Trustees. A 3-month progress report has been reviewed by the Planning Commission at the June 17, 2020 meeting. A Brownfield Plan was approved by the BOT on July 14, 2020.

HEADQUARTERS
235 East Main Street
Suite 105
Northville, Michigan 48167

☎ 248.596.0920
☎ 248.596.0930
MCKA.COM

Communities for real life.



Planning and Zoning Active Projects

PROJECT	BACKGROUND	STATUS / NEXT STEPS
#2312 <i>Ponds at Andover</i>	Application for seven (7) single-family detached units on 11 acres submitted to the Township. The tentative development plan was approved, with conditions, at the March 18, 2020 Planning Commission meeting.	Final development approval granted at the June 17, 2020 Planning Commission meeting. BOT to consider the CHO contract on August 25, 2020.
#2314 <i>15100 Fogg</i>	Site plan approval for new industrial building.	Final Stamp pending, awaiting final engineering approval.
#2320 <i>V Tech (Innotech) Business Park</i>	Final site plan approval, with conditions, granted by the Planning Commission for the Business Park on April 17, 2019 for infrastructure and utilities only.	Approval granted for a one-year Site Plan extension at the May 13, 2020 Planning Commission meeting, to expire on April 17, 2021.
#2325 <i>40880 Ann Arbor Burger King Remodel</i>	Tentative site plan approval, with conditions, granted by the Planning Commission at their March 20, 2019 meeting. Final site plan approval, with conditions, granted at the March 18, 2020 Planning Commission meeting.	Administrative review committee to review the revised site plan and signage plan, prior to Final Stamp. Project on hold per applicant's request.
#2332 <i>Boleski Funeral Home</i>	Applicant withdrawn from the April 17, 2019 Planning Commission agenda. Tentative site plan approval, with conditions, granted for the March Planning Commission meeting.	Administrative review committee to review the revised site plan, prior to final site plan consideration; awaiting a revised site plan.
#2340 <i>43939 Plymouth Oaks</i>	Illmore parking lot expansion, administrative review.	Awaiting Wayne County permits; a one-year site plan extension request granted on June 23, 2020, to expire on June 23, 2021.
#2346 <i>Phoenix Mill</i>	Redevelopment of the former Wayne County Road Yard, adjacent to Hines Park, into a restaurant and event space.	Planning Commission granted Final Site Plan approval on July 15, 2020 for the restaurant use only. The Township is slated to have a follow up call with Wayne County and the applicant regarding parking in late August.
#2348 <i>Plymouth Marketplace</i>	Redevelopment, under a 2016 PUD agreement, for the Henry Ford Health System and associated outlot at Haggerty and Ann Arbor Road.	Administrative site plan review in progress. Finalization of the PUD amendment pending.
#2349 <i>General Drive Plymouth Storage</i>	Tentative and final site plan approval for a climate-controlled storage facility and covered RV parking, with conditions, on December 18, 2019.	Final Stamp pending, awaiting engineering approval.
#2351 <i>Suburban Cadillac Remodel</i>	Building façade renovations and new landscaping proposed. Final site plan approval, with conditions, granted at the March 18, 2020 Planning Commission meeting.	Final Stamp pending, awaiting engineering approval.



Planning and Zoning Active Projects

PROJECT	BACKGROUND	STATUS / NEXT STEPS
#2355 42480 Postiff	Application for two additional professional office space buildings submitted to the Township. Tentative and final site plan approval, with conditions, was granted on March 18, 2020.	Project on hold, per applicant request.
#2357 Bank of Ann Arbor	Administrative site plan for construction of a transformer.	Review in progress, additional changes needed for Ordinance compliance. Awaiting revised application.
#2358 47334 Joy	Land division request for three resulting lots made; the future lot would be used for additional single-family homes.	Review complete; minimum dimension requirements are not met for the R-1-H District, applicant to resubmit plans.
#2359 Ridge 5 Flex Building	Site plan review for a 66,000 sq.ft. industrial / office building at the SE corner of Ridge and Five Mile Roads.	Tentative site plan approval granted on May 13, 2020. Final site plan consideration scheduled for the September 16, 2020 Planning Commission meeting
#2361 Margate Residential Subdivision	Application submitted for a Cluster Housing Option at 9295 Canton Center Road for 30 single family homes.	Public hearing held at the July 15, 2020 Planning Commission meeting; application to be considered by the Board of Trustees on August 25, 2020.
46200 N. Territorial CHO	Application submitted for a Cluster Housing Option at 46200 N. Territorial.	Application for a CHO submitted. Public Hearing scheduled for the August 19, 2020 Planning Commission meeting agenda.
2363-0820: General Drive (RV Storage) Land Combination	Application submitted for Land Combination at the General Drive (RV Storage) site.	Administrative review in progress.
9075 Haggerty Amazon Facility	Administrative site plan review for an extension to the existing facility at 9075 Haggerty Road, for 2021.	Conference calls with applicant re: pre-development and landscaping. Applicant to submit plans in late 2020.

RECOMMENDATIONS AND THE NEXT MONTH OUTLOOK

- **Elk's Property.** The Elk's property is for sale; we have received several inquiries on the site for redevelopment, including the adjacent 30 acres to the north.
- **CSX Improvements.** CSX provided an update to the Township regarding the proposed improvements to the overpass on Ann Arbor Road and has requested additional information, including utility and right-of-way details. The Township is in the process of providing additional information to CSX.
- **Master Plan Update.** Phase 1 of the Plymouth Township Master Plan initiated. The Planning Department will provide an update to the Planning Commission at the August 19, 2020 meeting and a subsequent presentation at the September 8, 2020 Board of Trustees meeting.



- Text Amendments in Progress:
 - Review of signage standards in the TAR and IND districts.
 - Review of landscape standards, Article 26 of the Zoning Ordinance.
 - Review of subdivision gate standards.
- Township initiated rezoning of the Shearer Cemetery to the Public Lands district recommended; a public hearing to be considered at a future Planning Commission meeting. Text amendment consideration for municipal cemeteries to be designated as a permitted land use in the Public Land zoning district.
- Master Deed for Ridge 5 Corporate Park approved by the Board of Trustees—a plan for the public pathway is to be presented and considered within the next 3 months.
- 2019 Brownfield Reporting was finalized with the State.

If you have any questions on the above planning, zoning and design projects or would like additional information, please contact Laura Haw at Lhaw@mcka.com. Thank you.



Plymouth Twp. Police

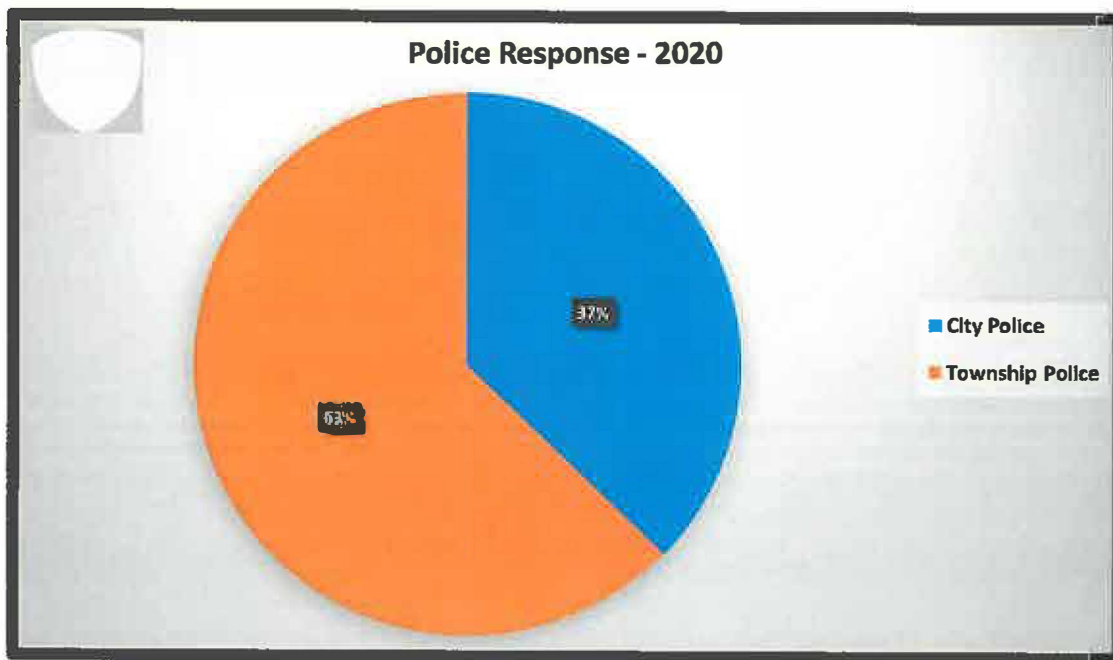
July 2020

PART-ONE CRIMES

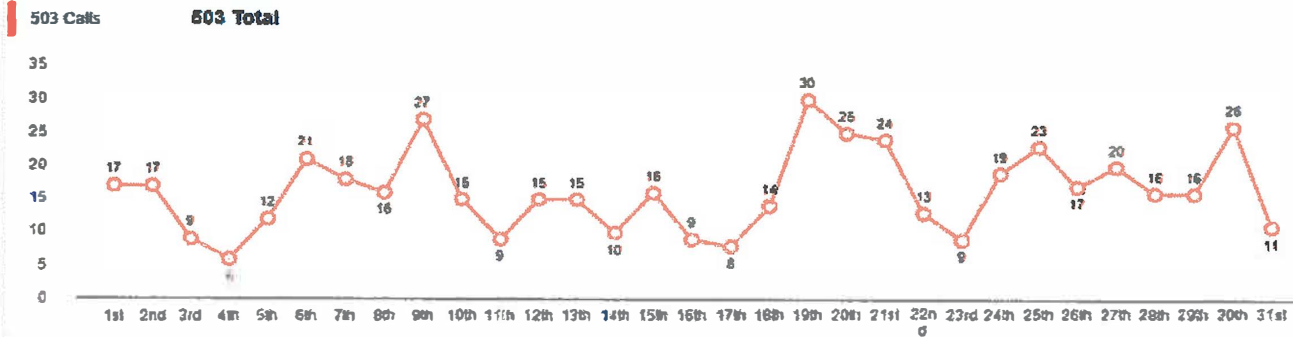
CLASS	Description	Jul/2020	Jul/2019	% CHG	YTD 2020	YTD 2019	% CHG
11001	SEXUAL PENETRATION PENIS/VAGINA -CSC 1ST DEG	1	0	0%	2	1	100.0%
11005	SEXUAL PENETRATION OBJECT -CSC 1ST DEGREE	0	0	0%	1	0	0%
11006	SEXUAL PENETRATION OBJECT -CSC 3RD DEGREE	0	1	-100.0%	1	1	0%
11007	SEXUAL CONTACT FORCIBLE -CSC 2ND DEGREE	0	0	0%	2	0	0%
11009	SEXUAL CONTACT FORCIBLE -CSC 4TH DEGREE	0	0	0%	0	1	-100.0%
13001	NONAGGRAVATED ASSAULT	5	5	-16.7%	31	48	-32.6%
13002	AGGRAVATED/PELOMOUS ASSAULT	1	1	0%	2	7	-71.4%
13003	INTIMIDATION/STALKING	0	2	-100.0%	4	7	-42.9%
20000	ARSON	0	1	-100.0%	0	1	-100.0%
22001	BURGLARY -FORCED ENTRY	1	2	-50.0%	5	6	-16.7%
22002	BURGLARY -ENTRY WITHOUT FORCE (intent to Comm	0	3	-100.0%	3	4	-25.0%
23000	LARCENY -THEFT FROM BUILDING	1	2	-50.0%	8	23	-65.2%
23005	LARCENY -THEFT FROM MOTOR VEHICLE	0	1	-100.0%	8	20	-60.0%
23006	LARCENY -THEFT OF MOTOR VEHICLE PARTS/ACCE	1	1	0%	10	18	-44.4%
23007	LARCENY -OTHER	2	5	-60.0%	11	21	-47.6%
24001	MOTOR VEHICLE THEFT	1	2	-50.0%	12	9	33.3%
25000	FORGERY/COUNTERFEITING	0	0	0%	1	0	0%
26001	FRAUD -FALSE PRETENSE/SWINDLE/CONFIDENCE G	2	1	100.0%	11	23	-52.2%
26002	FRAUD -CREDIT CARD/AUTOMATIC TELLER MACHINE	0	2	-100.0%	2	5	-58.7%
26005	FRAUD -WIRE FRAUD	0	0	0%	2	0	0%
26007	FRAUD - IDENTITY THEFT	5	5	0%	46	41	12.2%
27000	EMBEZZLEMENT	0	0	0%	2	2	0%
28000	STOLEN PROPERTY	0	1	-100.0%	1	3	-66.7%
29000	DAMAGE TO PROPERTY	3	1	200.0%	23	24	-4.2%
30001	RETAIL FRAUD -MISREPRESENTATION	0	0	0%	0	1	-100.0%
30002	RETAIL FRAUD -THEFT	2	0	0%	11	3	266.7%
35001	VIOLATION OF CONTROLLED SUBSTANCE ACT	2	2	0%	7	5	16.7%
35002	MARIJUANA EQUIPMENT VIOLATIONS	1	3	-66.7%	3	5	-40.0%
37000	OBSCENITY	0	0	0%	3	0	0%
52001	WEAPONS OFFENSE- CONCEALED	0	2	-100.0%	1	4	-75.0%
52008	WEAPONS OFFENSE -OTHER	0	0	0%	0	1	-100.0%
Totals for Part A		28	44		213	284	-25.00%

POLICE RESPONSE													
2020	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
City Police	761	704	513	270	318	448	490	0	0	0	0	0	3,502
Township Police	1,254	1,151	854	438	548	732	939	0	0	0	0	0	5,916
Total	2,015	1,855	1,367	708	866	1,178	1,429	0	0	0	0	0	9,418

POLICE RESPONSE													
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
City Police	1,017	936	708	918	1,033	1,085	946	767	809	823	707	685	10,434
Township Police	1,255	1,025	1,410	1,085	1,244	1,190	1,209	1,158	1,188	1,206	1,162	1,076	14,208
Total	2,272	1,961	2,118	2,003	2,277	2,275	2,155	1,925	1,997	2,029	1,869	1,761	24,642

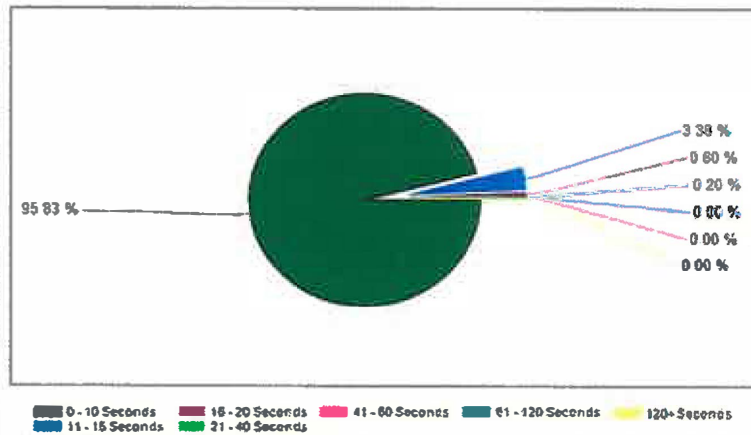


Captures per Day in July, 2020



2020 DISPATCH	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
# of 911 Calls	1,163	1,027	512	325	362	395	503	0	0	0	0	0	4,307
# of Non-Emergency Calls	2,310	2,222	2,184	1,596	2,095	2,253	2,421	0	0	0	0	0	15,381
Total	3,493	3,249	2,696	2,221	2,457	2,648	2,924	0	0	0	0	0	19,688
2019 DISPATCH	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
# of 911 Calls	1,266	1,121	1,365	1,134	1,207	1,349	1,405	1,273	1,228	1,255	1,289	1,138	15,028
# of Non-Emergency Calls	2,602	2,381	2,319	2,262	2,652	2,732	2,743	2,309	2,340	2,603	2,374	2,368	29,905
Total	3,868	3,502	3,684	3,396	4,059	4,081	4,148	3,582	3,568	3,858	3,663	3,526	44,933

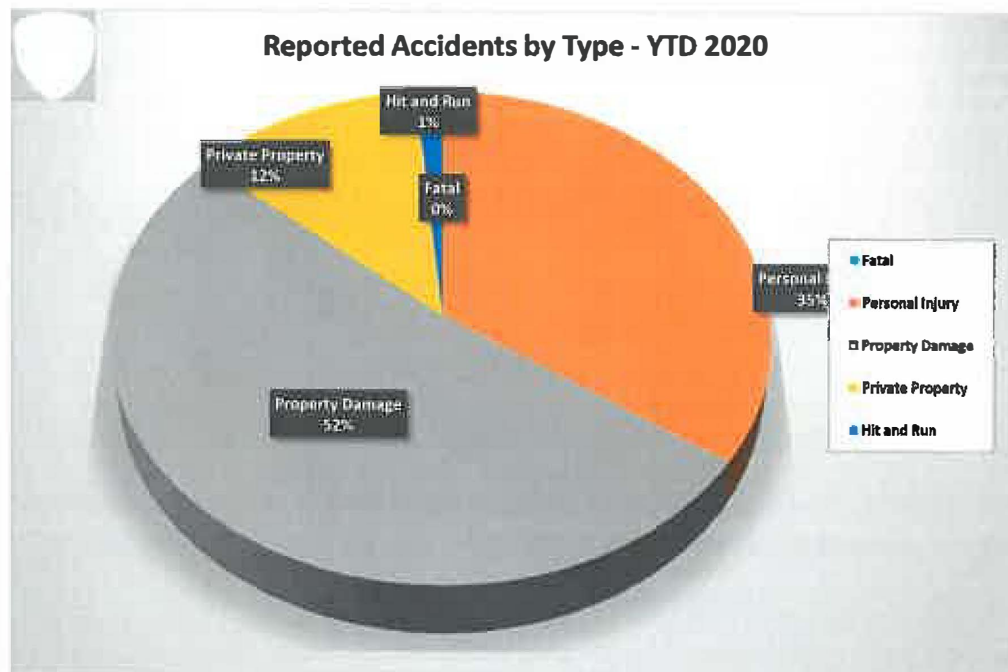
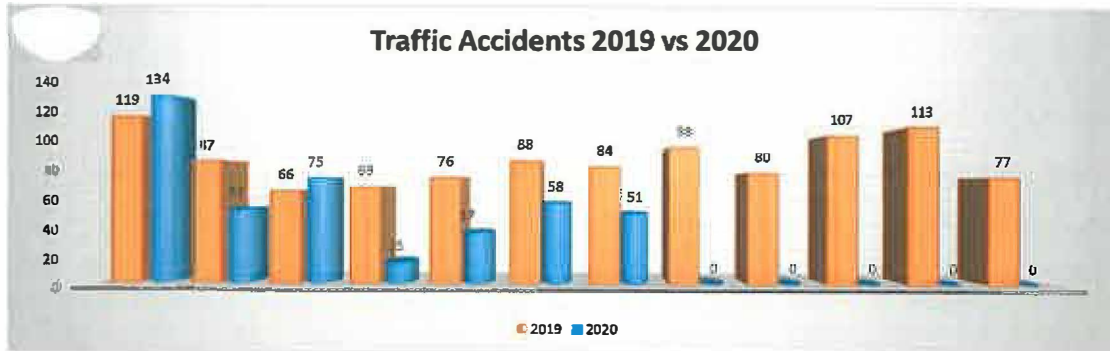
PSAP Answer Time



- 3.1 **Standard for answering 9-1-1 Calls.** Ninety percent (90%) of all 9-1-1 calls arriving at the Public Safety Answering Point (PSAP) shall be answered within ten (10) seconds during the busy hour (the hour each day with the greatest call volume, as defined in the NENA Master Glossary). Ninety-five (95%) of all 9-1-1 calls should be answered within twenty (20) seconds.

% answer time 10 seconds	95.83%
% answer time 20 seconds	99.81%

TRAFFIC ACCIDENT SUMMARY													
2020	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Fatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Personal Injury	66	12	36	1	6	12	13	0	0	0	0	0	146
Property Damage	58	40	29	9	20	32	33	0	0	0	0	0	218
Private Property	12	0	10	5	11	14	0	0	0	0	0	0	52
Hit and Run	0	1	0	0	0	0	5	0	0	0	0	0	6
Total	134	53	75	15	37	58	51	0	0	0	0	0	423
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Fatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Personal Injury	14	5	10	11	13	14	14	16	17	12	17	10	153
Property Damage	82	63	47	41	47	59	49	57	49	76	80	61	721
Private Property	13	19	9	17	16	13	21	25	14	19	16	5	187
Hit and Run	0	0	0	0	0	2	0	0	0	0	0	1	3
Total	119	87	66	69	76	88	84	98	80	107	113	77	1064



TRAFFIC VIOLATION SUMMARY

January 1, 2020 through December 31, 2020

2020	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
OWI	6	6	2	0	3	0	5	0	0	0	0	0	22
Speed	59	65	49	1	2	2	56	0	0	0	0	0	234
Commercial	0	1	0	1	0	0	0	0	0	0	0	0	2
Traffic Stops	468	428	283	14	78	84	322	0	0	0	0	0	1,677

Number of Arrests

2020	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Felony	5	12	2	0	3	0	6	0	0	0	0	0	28
Misdemeanor	67	69	48	15	15	14	37	0	0	0	0	0	265
Citations	258	256	152	22	46	51	150	0	0	0	0	0	935
Total	330	337	202	37	64	65	193	0	0	0	0	0	1,228

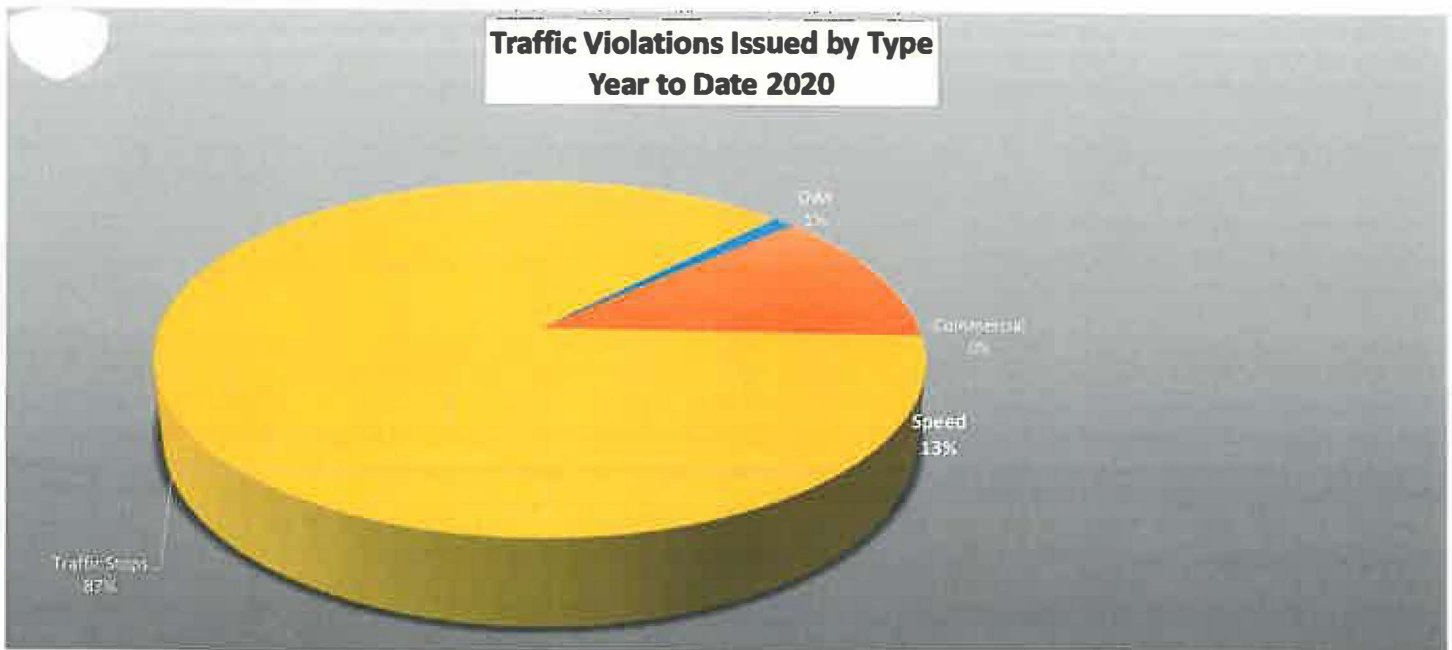
January 1, 2019 through December 31, 2019

2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
OWI	5	1	10	7	7	2	2	9	6	11	8	8	76
Speed	41	40	53	77	79	50	74	49	52	66	49	34	664
Commercial	8	0	1	0	2	1	0	4	2	3	0	0	21
Traffic Stops	509	384	474	455	454	404	429	405	397	411	292	346	4,960

Number of Arrests

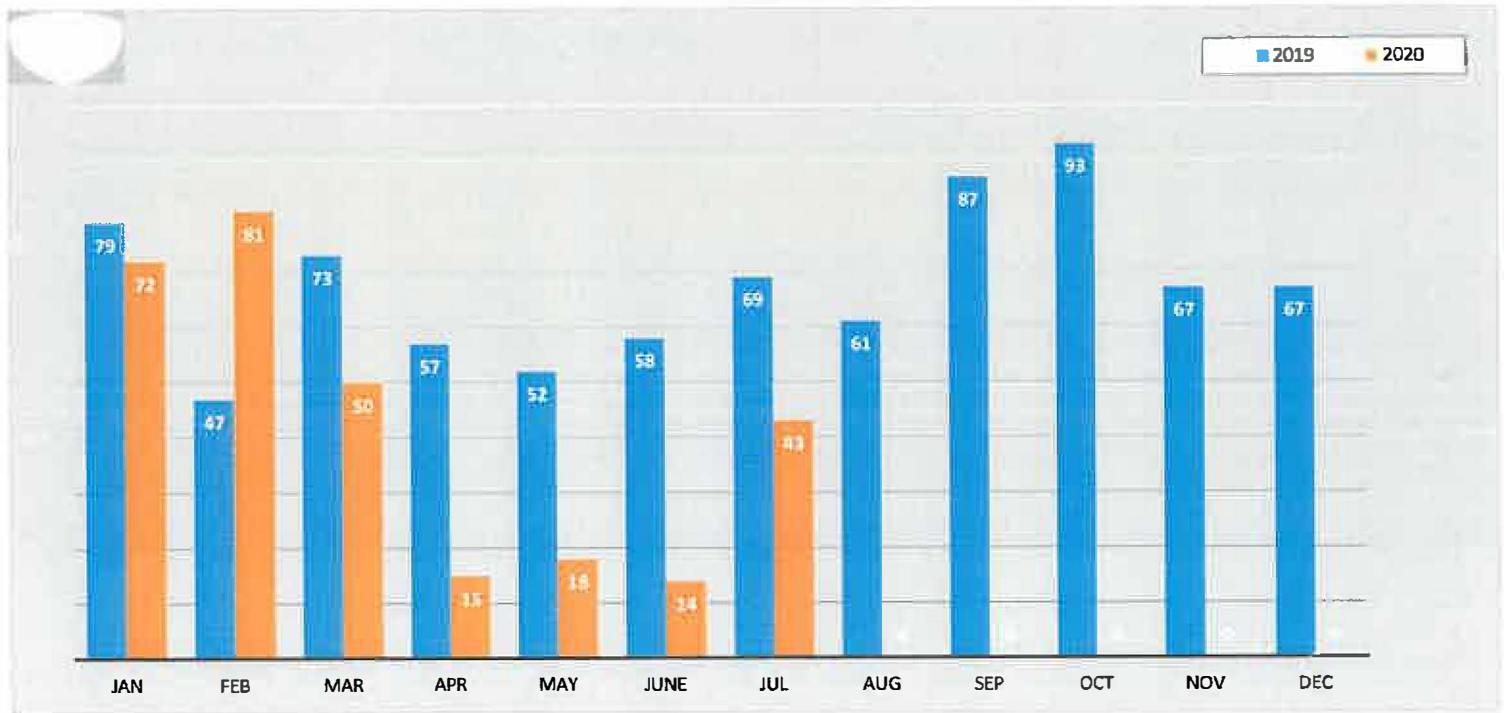
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Felony	14	5	9	3	4	10	10	14	13	12	5	10	109
Misdemeanor	65	42	64	54	48	48	59	47	74	81	62	57	701
Citations	262	192	237	221	230	193	194	222	206	248	222	172	2,599
Total	341	239	310	278	282	251	263	283	293	341	289	239	3,409

**Traffic Violations Issued by Type
Year to Date 2020**



NUMBER OF ARRESTS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
2020	72	81	50	15	18	14	43	0	0	0	0	0	293
2019	79	47	73	57	52	58	69	61	87	93	67	67	810



FOIA Monthly Report

Run Date: 08/01/2020 8:01 AM

Create Date	Company Name	Customer Full Name	Type of Information Requested	Amount of Payment
7/7/2020	Metropolitan Reporting Bureau	Metropolitan Reporting Bureau	Fire Report	
7/8/2020		Justin Grauer	Building	\$5.65
7/13/2020	Plymouth Township Fire Department	Scott Gross	Accounting Records Human Resources	
7/14/2020	Livingston County	Joseph Bridgman	Other	
7/16/2020	Plymouth Township Fire Department	Scott Gross	Fire Report Human Resources	
7/20/2020	Bowman and Brooke	Keith Konnie	EMS Report Fire Report	
7/17/2020		John Sabbagh	Assessing Records Building	
7/21/2020	006686243582	Mr Douglas Kahan	Building	
7/15/2020		Senior Writer Katie Strang	Assessing Records Building Environmental Outstanding Liens/Assessments Planning	
7/28/2020	CSX Police	Paul Bracy	Fire Report	
7/22/2020	Protech Electric, LLC	David Lycette	Building	
7/10/2020		Paralegal Aleta Nolan	EMS Report Police Records Other	
7/31/2020	Pennoni	Associate Geologist Anna Thornton	Environmental	
Total Requests: 13				Total Dollars: 5.65

PD FOIA Monthly Report

Run Date: 08/01/2020 8:01 AM

Create Date:	Company Name	Customer Full Name	Type of Information Requested	Amount of Payment	
7/1/2020	Aldrich Legal Services	Brad Aldrich	Police Records	72.95	
7/1/2020		Sam Milanovich	Police Records	0.00	
7/2/2020		Sheila Rasmussen	Police Records	0.00	
7/13/2020		Marigrace Wullaume	Police Records		
7/9/2020		Dr Beatrice Muglia	Police Records		
7/9/2020		Karin Young	Police Records		
7/14/2020		Matt Konenski	Police Records		
7/10/2020	Haller Appraisal for Great American Insurance	Lisa Haller	Police Records		
7/9/2020	Law offices of Kimberly J. Bowlin, PLLC	Rhodora Inocentes	Police Records		
7/17/2020		Matt Konenski	Police Records		
7/20/2020		Chris Dimanin	Police Records		
7/9/2020		Kimberly Hamman	Police Records		
7/20/2020		Salim Hassan	Police Records		
7/23/2020		Michael Tenbusch	Police Records		
7/22/2020		Salim Hassan	Police Records		
7/28/2020		self arishonne Saunders	Police Records		
7/27/2020		Larry Malovey	Police Records		
7/10/2020		Paralegal Aleta Nolan	EMS Report Police Records Other		
7/30/2020	Christensen Law	Dawn Tata	Police Records		
7/17/2020		Clemmie Childs-Shumpert	Police Records		
7/31/2020		Donna Barnes	Police Records		
7/30/2020		Deborah Tonelli	Police Records		
7/29/2020		Plymouth House Apartments	Tiffany Markham	Police Records	
7/31/2020		Enterprise Holdings	Lauren Bernardo	Police Records	
Total Requests: 24				Total Dollars: 72.95	

BOARD DATE

8/25/2020

FUND NAME	FUND NUMBER	PAYROLL & INVOICES PAID		
		TOTAL INC PAYROLL	PRIOR TO MEETING	INVOICES PAID AFTER BOARD REVIEW
GENERAL FUND	101	1,258,366.08	1,110,559.54	147,806.54
SWD	226	118,090.73	6,987.95	111,102.78
IMPROV. REV.	246	14,900.00	-	14,900.00
DRUG FORFEITURE	265	-	-	-
DRUG FORFEITURE	266	76,023.57	-	76,023.57
DRUG FORFEITURE	267	-	-	-
GOLF COURSE FUND	510	-	-	-
SENIOR TRANSPORATION	588	8,075.28	7,477.53	597.75
WATER & SEWER	592	835,257.21	796,361.48	38,895.73
TRUST& AGENCY	701	-	-	-
POLICE BOND FUND	702	1,250.00	1,250.00	-
TAX POOL	703	2,177.71	2,177.71	-
SPECIAL ASSESS CAPITAL	805	963,097.89	255,749.49	707,348.40
	TOTAL	3,277,238.47	2,180,563.70	1,096,674.77

GRAND TOTAL 3,277,238.47

Charter Township of Plymouth

AP Invoice Listing - Board Report

BR

8/19/2012

VENDOR INFORMATION**INVOICE INFORMATION****ADVANCED DISPOSAL**

TWP PARK FACILITY - YD WASTE FEES_AUG 202

101-691-931.000

Invoice Amount:**\$125.00****Check Date:****08/26/2020**

TWP PARK YARD WASTE - AUG 2020 908568

125.00

ADVANCED DISPOSAL

TWP FACILITIES - AUG 2020 FEES

101-691-931.000

101-336-776.000

101-691-931.000

101-265-776.000

592-172-776.000

101-691-931.000

101-336-776.000

101-265-815.000

Invoice Amount:**\$821.00****Check Date:****08/26/2020**

TWP PARK TRASH/RECYCLE

306.00

FIRE STN 3 TRASH

25.00

LK PNT SOCCER PARK TRASH

68.00

TWP HALL TRASH/RECYCLE

170.00

DPW TRASH

68.00

HILL TOP TRASH/RECYCLE

134.00

FIRE STN 2 TRASH

25.00

FRIENDSHIP STATION TRASH

25.00

Advanced Satellite Communications

INV. 6002 7/1/2020 CCTV SERVICE AGREEMENT

101-305-818.000

Invoice Amount:**\$2,445.00****Check Date:****08/26/2020**

COVERAGE PERIOD 7/1/2020 - 9/30/2020

2,445.00

Advanced Satellite Communications

SA-ALARM- - QTLY BILLING - 9/1/2020-11/30/20

101-265-776.000

101-305-776.000

101-336-776.000

592-172-776.000

Invoice Amount:**\$105.00****Check Date:****08/26/2020**

SA-Alarm

50.04

SA-Alarm

32.24

SA-Alarm

13.42

SA-Alarm

9.30

ALLIED EAGLE SUPPLY COMPANY, LLC

CLOROX T360 ELECTRO SPRAYER ELECTROSTAT

101-315-951.000-20

Invoice Amount:**\$372.09****Check Date:****08/26/2020**

CLOROX TOTAL 360 DISINFECT 4CA

372.09

ALLIE BROTHERS UNIFORMS

UNIFORMS FOR RANDALL

101-336-758.000

101-336-758.000

101-336-758.000

101-336-758.000

Invoice Amount:**\$332.93****Check Date:****08/26/2020**

PANTS

109.98

L/S SHIRTS

95.98

S/S SHIRTS

91.98

BELT

34.99

ALLIE BROTHERS UNIFORMS

UNIFORMS RANDALL

101-336-758.000

Invoice Amount:**\$169.99****Check Date:****08/26/2020**

UNIFORM JACKET - RANDALL

169.99

ALLIE BROTHERS UNIFORMS

INV. 80392 7/24/2020 NEW HIRE UNIFORM EQUI

101-305-758.000

101-305-758.000

101-305-758.000

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101-305-758.000

101-305-758.000

Invoice Amount:**\$872.85****Check Date:****08/26/2020**

UNIFORM S/S SHIRT

149.97

UNIFORM PANTS

164.97

UNIFORM SIDE/SAP POCKET

90.00

UNIFORM GARRISON BELT

34.99

UNIFORM TIE

6.00

UNIFORM KEEPERS (SET)

51.96

UNIFORM HANDCUFF STRAP

12.99

UNIFORM NAME TAG/PLATE/BADGE

13.99

UNIFORM BOOTS

230.00

UNIFORM ASP HOLDER

45.00

UNIFORM PREP HOLDER

39.99

UNIFORM HANDCUFFS

32.99

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION****ALLIE BROTHERS UNIFORMS**

INV. 80521 8/10/2020 POINT BLANK HI LITE VES
101-305-758.000

SERIAL 200000167610/200000167593

Invoice Amount: **\$699.99**
Check Date: **08/26/2020**
699.99

ALLIE BROTHERS UNIFORMS

INV. 79971 6/18/2020 UNIFORM EQUIPMENT FO
101-305-758.000
101-305-758.000
101-305-758.000

UNIFORM 3 RIBBON HOLDERS
UNIFORM BADGE - SERGEANT
UNIFORM BADGE - OFFICER

Invoice Amount: **\$1,013.00**
Check Date: **08/26/2020**
30.00
239.00
744.00

ALPHAGRAPHICS #336

NO. 10 POLY WINDOW #24 V01504 (500/BOX)
101-215-727.000

WINDOW ENVELOPES

Invoice Amount: **\$143.29**
Check Date: **08/26/2020**
143.29

AMERICAN LEGAL PUBLISHING CORP.

RECODIFICATION OF ORDINANCES (1ST BILL OF
101-290-901.000

RECODIFICATION OF ORDINANCES INV 278

Invoice Amount: **\$4,200.00**
Check Date: **08/26/2020**
4,200.00

Anderson Refrigeration, LLC

NEW DRINKING FOUNTAIN - 4 SEASONS PAVILI
101-691-931.000
101-691-931.000

DRINKING FOUNTAIN AND FITTINGS
LABOR

Invoice Amount: **\$1,338.50**
Check Date: **08/26/2020**
860.50
478.00

APOLLO FIRE EQUIPMENT

CHARGING RACK
101-336-978.001

CHARGING RACK

Invoice Amount: **\$55.76**
Check Date: **08/26/2020**
55.76

B & R JANITORIAL SUPPLY

CLEANING SUPPLIES
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000
101-336-776.000

FACIAL TISSUE LVI 30/100+ 2100272
C-FOLD TWL WHT 2400CS TK250620 2100100
FEBREEZE HD CRISP CLEAN AERO PGC96257
CHAMP DISINFECTANT CAN 5157 CH55157
HUSKY 320 NON ACID BOWL CLNR CAN320Q
URINAL BLOCK W/ENZYMES EVRGRN BGDS67
PUREX LIQUID LAUNDRY DETERGENT DIA0635
SPONGE SCRUBBER #174
KITCHEN ROLL TOWEL 30CS 6272 21002900
33G 3339 1.5 MIL BLACK R-39XH 21004200
55G 3858 1.5 MIL BLACK R-60XH 21004500
EZ PURPLE HD DEGREASER 10000233
FLEXWIPES 75CT CANISTER 6/CASE NTI20075

Invoice Amount: **\$1,676.58**
Check Date: **08/26/2020**
38.22
291.12
81.66
148.08
102.48
29.44
172.86
14.88
215.88
133.80
207.72
92.00
148.44

B & R JANITORIAL SUPPLY

CLERK ELECTION COVID SUPPLY
101-315-951.000-20

INVOICE 189998

Invoice Amount: **\$281.06**
Check Date: **08/26/2020**
281.06

B & R JANITORIAL SUPPLY

INV. 189874 7/10/2020 DISINFECTING WIPES (C
101-315-951.000-20

BOARDWALK DISINFECTING WIPES - 35 COUN

Invoice Amount: **\$125.28**
Check Date: **08/26/2020**
125.28

B S & A SOFTWARE

QUARTER FOR ONLINE PERMIT APPLICATIONS
101-371-818.000

INVOICE 130019

Invoice Amount: **\$494.00**
Check Date: **08/26/2020**
494.00

BATTERIES PLUS BULBS

BATTERIES. #P29955185 SIGN BOARD, AIR COM

Invoice Amount: **\$196.90**
Check Date: **08/26/2020**

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION**

	592-291-851.000	12V 65 FLOODED 24 (BATTERY)	111.95
	592-291-851.000	12V 214S AGM 12/0	84.95
Bidigare Contractors, Inc.		Invoice Amount:	\$7,190.47
WATER MAIN BREAK REPAIR FOR WELLINGTON		Check Date:	08/26/2020
592-291-932.000	WATER MAIN BREAK REPAIR ON WELLINGTON		7,190.47
Bidigare Contractors, Inc.		Invoice Amount:	\$13,480.00
RESTORATION OF HIDDEN CREEK WATER MAIN		Check Date:	08/26/2020
592-291-932.000	RESTORATION OF HIDDEN CREEK WATER MAI		13,480.00
BLACKWELL FORD INC.		Invoice Amount:	\$2,037.77
FORD ESCAPE FRONT END REPAIR		Check Date:	08/26/2020
101-371-863.000	INVOICE 366485		2,037.77
BLACKWELL FORD INC.		Invoice Amount:	\$2,332.01
INV. 366068 7/21/2020 VEHICLE REPAIR/C8670		Check Date:	08/26/2020
101-305-863.000	REP TIRES/REP COMPRESSOR/BRAKE PADS		2,332.01
BLACKWELL FORD INC.		Invoice Amount:	\$51.52
INV. 366332 7/27/2020 VEHICLE REPAIR/10643		Check Date:	08/26/2020
101-305-863.000	THE WORKS OIL CHANGE		51.52
BLACKWELL FORD INC.		Invoice Amount:	\$739.94
INV. 364400 6/10/2020 VEHICLE REPAIR/B3211		Check Date:	08/26/2020
101-305-863.000	REMOVE/REPLACE LOWER THERMOSTAT		739.94
BLACKWELL FORD INC.		Invoice Amount:	\$156.69
INV. 366128 7/21/2020 VEHICLE REPAIR/12971		Check Date:	08/26/2020
101-305-863.000	NEW KEY FOB AND PROGRAM		156.69
BLACKWELL FORD INC.		Invoice Amount:	\$146.52
INV. 365865 8/6/2020 VEHICLE REPAIR/C07494		Check Date:	08/26/2020
101-305-863.000	OIL CHANGE/ROAD TESTED (TRANS ISSUE)		146.52
OCCUPATIONAL HEALTH CENTERS OF MI		Invoice Amount:	\$51.00
PRE-PLACEMENTPHYSICAL - SARAH DRIELTS (D		Check Date:	08/26/2020
101-325-835.000	SARAH DRIELTS (DISP)		51.00
COPZ OUTLET, INC.		Invoice Amount:	\$964.75
INV. 0000706 6/8/2020 PLYMOUTH TWP. POLICE		Check Date:	08/26/2020
101-305-758.000	SHOULDER PATCHES		795.00
101-305-758.000	SHIPPING AND HANDLING		169.75
COMSOURCE, INC.		Invoice Amount:	\$473.30
MOUNTING & DOCKING FOR IPAD		Check Date:	08/26/2020
101-336-978.001	SHIPPING		34.00
101-336-978.001	GSM70150 LIGHTING CABLES		86.50
101-336-978.001	DS-DA-705 PROT CS		70.00
101-336-978.001	PKG-DS-APP-142 STAT. & CS FOR IPAD		282.80
COMSOURCE, INC.		Invoice Amount:	\$(525.00)
CREDIT FOR INV 507333 (PO 20-79726) PAID IN		Check Date:	08/26/2020
101-336-978.000	CR FOR INSTALL OF SECTOM HEADSETS - S/B		(525.00)
COMSOURCE, INC.		Invoice Amount:	\$388.90
VEHICLE #33926 RADIO EQUIPMENT		Check Date:	08/26/2020

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION**

	101-336-978.001	VEHICLE #33926 RADIO EQUIPMENT	388.90
CORPORATE CLEANING GROUP INC		Invoice Amount:	\$405.00
MONTHLY CLEANING		Check Date:	08/26/2020
	592-172-776.000	INVOICE 12137	345.00
	101-265-858.000	INVOICE 12137	60.00
CORPORATE CLEANING GROUP INC		Invoice Amount:	\$2,886.14
MONTHLY CLEANING		Check Date:	08/26/2020
	101-305-776.000	INVOICE 12085	1,319.78
	101-336-776.000	INVOICE 12085	112.00
	592-172-776.000	INVOICE 12085	252.00
	101-265-776.000	INVOICE 12085	1,114.86
	101-325-818.400	INVOICE 12085	87.50
Corporate Benefit Solutions, LLC		Invoice Amount:	\$280.85
AUGUST 2020 MONTHLY PREMIUM FOR BENEXP		Check Date:	08/26/2020
	101-171-818.000	BENEXPRESS ENROLLMENT	400.00
	101-171-818.000	UNUM BENX CREDIT	(119.15)
DC Dental, Inc.		Invoice Amount:	\$39.75
INV. 678910IN 7/10/2020 CAVI WIPES POLICE D		Check Date:	08/26/2020
	101-315-951.000-20	CAVI-WIPES	39.75
DC Dental, Inc.		Invoice Amount:	\$430.50
INV. 679064IN 7/10/2020 LATEX GLOVES FOR L		Check Date:	08/26/2020
	101-315-951.000-20	ULTRA ONE GLOVES - SMALL	205.50
	101-315-951.000-20	SAFE-GRIP GLOVES - X-LARGE	225.00
DC Dental, Inc.		Invoice Amount:	\$262.80
INV. 680028IN 7/15/2020 DISCIDE WIPES POLI		Check Date:	08/26/2020
	101-315-951.000-20	DISCIDE DISINFECTANT WIPES	262.80
EctoHR, Inc.		Invoice Amount:	\$6,825.00
ECTOHR - JULY 2020 SERVICES - (DETAILED INV		Check Date:	08/26/2020
	101-171-818.200	7.20 SERVICES - INV. 11459	6,825.00
EHLERS HEATING & AIR CONDITIONING		Invoice Amount:	\$14,900.00
INSTALLED 2 UNITS OF FURNACE AND AIR CON		Check Date:	08/26/2020
	246-246-970.000	FURNACE AND AIR CONDI UNITS FOR STA #3	14,900.00
FEDEX		Invoice Amount:	\$103.88
ELECTION PROGRAMMING SHIPMENT		Check Date:	08/26/2020
	101-262-730.000	TRANSPORTATION CHG	79.55
	101-262-730.000	HANDLING CHARGE	24.33
FELLRATH, PATRICK		Invoice Amount:	\$92.00
MILEAGE REIMBURSEMENT JULY 2020		Check Date:	08/26/2020
	592-291-863.000	MILEAGE REIMBURSEMENT JULY 2020	92.00
Galeana's Van Dyke Dodge		Invoice Amount:	\$25,341.19
2020 DODGE CHARGER SXT TO REPLACE THREE		Check Date:	08/26/2020
	266-300-978.000	4 DR AWD SEDAN SXT #LDES48	25,341.19
Galeana's Van Dyke Dodge		Invoice Amount:	\$50,682.38
2020 DODGE CHARGER SXT TO REPLACE THREE		Check Date:	08/26/2020
	266-300-978.000	4 DR AWD SEDAN SXT #LDES48	46,002.98

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	266-300-978.000	QUICK ORDER PACKAGE #28H	1.00
	266-300-978.000	ENGINE 3.6L V6 24V VVT #ERB	1.00
	266-300-978.000	8 SPEED AUTOMATIC #850RE #DFT	1.00
	266-300-978.000	235/55R19BSW AS PERFORMANCE #TPR	1.00
	266-300-978.000	19" X 7.5" SATIN CARBON WHEELS #WRQ	1.00
	266-300-978.000	CLOTH SPORT SEAT #BF	1.00
	266-300-978.000	MONOTONE PAINT APPLICATION #APA	1.00
	266-300-978.000	UCONNECT 4C W/8.4" DISPLAY #UAS	1.00
	266-300-978.000	COLD WEATHER PACKAGE #AD7	1.00
	266-300-978.000	INTERIOR COLOR - BLACK #X9	1.00
	266-300-978.000	PRIMARY COLOR-PITCH BLACK CLEARCOAT #P	1.00
	266-300-978.000	DESTINATION	4,485.00
	266-300-978.000	DELIVERY	183.40
GFL Environmental USA, Inc.		Invoice Amount:	\$891.50
DPW STREET SWEEPING DEBRIS		Check Date:	08/26/2020
	592-291-973.033	TEMP DUMPSTERS-STREET SWEEPING 08/04/2	350.00
	592-291-973.033	21.66 TONS - DISPOSAL FEE - \$25/TON	541.50
GFL Environmental USA, Inc.		Invoice Amount:	\$225.00
DPW RECYCLE CENTER		Check Date:	08/26/2020
	226-226-810.500	07/31/20 - CARDBOARD/PAPER 0045503591	225.00
GFL Environmental USA, Inc.		Invoice Amount:	\$103,970.16
JULY 2020 - RESIDENTIAL COLLECTION FEE		Check Date:	08/26/2020
	226-226-810.000	JUL 2020 TRASH	67,191.60
	226-226-810.000	JUL 2020 RECYCLING	18,742.92
	226-226-810.000	JUL 2020 YARD WASTE	18,035.64
GFL Environmental USA, Inc.		Invoice Amount:	\$6,885.50
JUL 2020 RESIDENTIAL YARD WASTE DISPOSAL F		Check Date:	08/26/2020
	226-226-810.000	275.42 TONS @ 25.00/TON - JUL 2020	6,885.50
General Linen & Uniform Service		Invoice Amount:	\$41.25
INV. 0304014 7/29/2020 PRISONER BLANKET CL		Check Date:	08/26/2020
	101-325-851.000	Blanket Cleaning	33.75
	101-325-851.000	DELIVERY CHARGE	7.50
Goretski Construction Company		Invoice Amount:	\$27,170.46
PLYMOUTH COMMONS SAD PAY #5 FINAL		Check Date:	08/26/2020
	805-805-970.300	PLYMOUTH COMMONS SAD PAY#5 FINAL	27,170.46
GreatAmerica Financial Services		Invoice Amount:	\$448.19
STANDARD PAYMENT (CURRENT & PAST DUE AM		Check Date:	08/26/2020
	101-215-978.500	STD PMT	442.89
	101-215-978.500	FREIGHT	5.30
HALT FIRE INC		Invoice Amount:	\$440.75
VEH 32908 EQUIPMENT INSTALLATIONS		Check Date:	08/26/2020
	101-336-863.000-20	VEH# 32908 EQUIPT. INSTALLATION	440.75
Hallahan & Associates, PC		Invoice Amount:	\$5,912.16
INVOICE # 17567 ASSESSING LEGAL SERVICES J		Check Date:	08/26/2020
	101-209-826.000	INV. # 17567 - ASSESS. LEGAL JULY 2020	5,912.16
HEMMING,POLACZYK,CRONIN,SMITH,		Invoice Amount:	\$12,209.25
LEGAL SERVICES JULY 2020 SERVICES (KEVIN B		Check Date:	08/26/2020
	101-290-825.000	ORDINANCE PROSECUTIONS	7,245.00

Charter Township of Plymouth

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VENDOR INFORMATION

INVOICE INFORMATION

	101-290-827.000	COMMUNITY DEVELOPMENT	1,942.50
	101-290-826.000	ADMIN	2,231.25
	592-172-830.000	WATER AND SEWER	761.25
	101-290-826.000	BUILDING DEPT.	26.25
	101-290-826.000	MISC	3.00
HUMANE SOCIETY OF HURON VALLEY		Invoice Amount:	\$25.00
INV. 202002 2/29/2020 STRAY IMPOUND SERVIC		Check Date:	08/26/2020
101-305-819.000	Stray Impound Services		25.00
HUMANE SOCIETY OF HURON VALLEY		Invoice Amount:	\$100.00
INV. 202003 3/31/2020 STRAY IMPOUND SERVIC		Check Date:	08/26/2020
101-305-819.000	STRAY IMPOUND SERVICES - CASE #20-3102		100.00
HYDRO CORP		Invoice Amount:	\$1,851.00
CROSS CONNECTION CONTROL PROGRAM JULY		Check Date:	08/26/2020
592-291-804.000	CROSS CONNECTION CONTROL PROGRAM JUL		1,851.00
IPS Drug Testing, LLC		Invoice Amount:	\$40.00
RANDOM FEDERAL DOT - KRUEGEER- INV. # 202		Check Date:	08/26/2020
592-291-818.000	RANDOM FEDERAL DOT - DPW -KRUEGER		40.00
IRON MOUNTAIN		Invoice Amount:	\$248.36
OFFSITE STORAGE - AUGUST 2020		Check Date:	08/26/2020
101-215-818.000	OFFSITE STORAGE - AUGUST 2020		248.36
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$1,158.16
MEDICAL SUPPLIES		Check Date:	08/26/2020
	101-336-836.000	GRA51926 MEGAMOVER 1500	75.60
	101-336-836.000	KIM50602 PURPLE GLOVES MEDIUM	201.40
	101-336-836.000	DIGFL 12-4 FRONTLINE GLOVES XL	356.20
	101-336-836.000	DIGFL 12-3 FRONTLINE GLOVES LG	356.20
	101-336-836.000	AURELIA GLOVES XL	112.60
	101-336-836.000	FORACARE SOL FCIFORA-AC S015-N NORMAL	18.72
	101-336-836.000	CTRL SOL HIGH GD50	18.72
	101-336-836.000	CTRL SOL LOW GD50	18.72
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$325.04
MEDICAL SUPPLIES		Check Date:	08/26/2020
	101-336-836.000	AMB520-212-000 AMBU SPUR II DISPOSABLE R	132.60
	101-336-836.000	COV22550P COVIDIEN MEDI-TRACE CADENCE	121.20
	101-336-836.000	DIGFL12-1 FRONTLINE 12 NITRILE EXAM GLO	71.24
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$106.86
MEDICAL SUPPLIES		Check Date:	08/26/2020
	101-336-836.000	DIGFL12-4 FRONTLINE 12 NITRILE EXAM GLO	106.86
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$312.50
MEDICAL SUPPLIES		Check Date:	08/26/2020
	101-336-836.000	RAP352000 COLD PACK RAPID 5½" X 10½"	134.40
	101-336-836.000	DIGFL12-3 FRONTLINE 12 NITRILE EXAM GL	178.10
KSS Enterprises		Invoice Amount:	\$126.56
FY 2020 BLANKET PURCHASE ORDER - INV. #12		Check Date:	08/26/2020
101-691-931.000	FY2020 BLANKET PURCHASE ORDER		126.56
AutoZone		Invoice Amount:	\$4.18
INV. 4382470299 7/28/2020 VEHICLE SUPPLIES		Check Date:	08/26/2020

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION**

	101-305-863.000	GLASS CLEANER	4.18
M H R BILLING SERVICES		Invoice Amount:	\$342.00
MONTHLY BILLING FEE		Check Date:	08/26/2020
	101-336-959.000	MONTHLY BILLING FEE	342.00
MAIN STREET AUTO WASH		Invoice Amount:	\$435.00
JUNE AND JULY CAR WASHES		Check Date:	08/26/2020
	101-305-863.000	Police Vehicles	420.00
	101-371-863.000	Building Vehicles	15.00
MARK ANTHONY CONTRACTING, INC.		Invoice Amount:	\$498,942.74
GENERAL DRIVE SAD - PAY APPLICATION #2		Check Date:	08/26/2020
	805-805-970.350	GENERAL DRIVE SAD - PAY APPLICATION #2	498,942.74
MARK ANTHONY CONTRACTING, INC.		Invoice Amount:	\$117,798.95
LITCHFIELD DRIVE SAD - PAY APPLICATION #2		Check Date:	08/26/2020
	805-805-970.310	LITCHFIEL DRIVE SAD - PAY APPLICATION #2	117,798.95
Marquis Food Service, Inc.		Invoice Amount:	\$37.50
INV. 9432 7/31/2020 PRISONER MEALS		Check Date:	08/26/2020
	101-325-818.400	Breakfast Sandwiches	32.50
	101-325-818.400	Delivery	5.00
MCKENNA ASSOCIATES INC		Invoice Amount:	\$2,655.00
PROFESSIONAL SERVICES - JULY 2020 - 90047-		Check Date:	08/26/2020
	101-371-818.500	SR.PRINCIPAL PLANNER (PREP & ATTEND)	880.00
	101-371-818.500	2362 - CLUSTER HOUSING - 46200 N. TERRI	1,075.00
	101-371-818.500	LANDSCAPE REVIEW - 2232 - DUNKIN DONUTS	175.00
	101-371-818.500	LANDSCAPE OBSERVATION-2233 - POLYTEC	175.00
	101-371-818.500	LANDSCAPE REVIEW -2330 WEBASTO	350.00
MCKENNA ASSOCIATES INC		Invoice Amount:	\$1,073.00
PROFESSIONAL SERVICES - JULY 2020 - INVOI		Check Date:	08/26/2020
	101-371-818.500	47.00% COMPLETE - MASTER PLAN	1,073.00
MCKENNA ASSOCIATES INC		Invoice Amount:	\$5,285.00
PROFESSIONAL SERVICES - JULY 2020 - INVOI		Check Date:	08/26/2020
	101-371-818.500	11.20 - 1/2 DAY ON-SITE SERVICES	4,256.00
	101-371-818.500	1.40 - FULL DAY SERVICES	1,029.00
MERCHANTS & MEDICAL CREDIT CORP, IN		Invoice Amount:	\$193.25
COLLECTION FEES FOR TRANSPORT BILLING		Check Date:	08/26/2020
	101-336-959.000	COLLECTION FEE	193.25
MESSINA CONCRETE INC		Invoice Amount:	\$610.83
CONCRETE FOR WMB RESTORATIONS 8869 NOR		Check Date:	08/26/2020
	592-291-932.000	8869 NORTHERN 3.75 YARDS OF CONCRETE	610.83
M M L WORKER'S COMPENSATION FUND		Invoice Amount:	\$26,723.00
MML - WORKERS COMP FUND - JULY 2020-2021		Check Date:	08/26/2020
	101-101-720.000	TOWNSHIP BOARD	14.21
	101-171-720.000	SUPERVISOR	97.69
	101-201-720.000	INFORMATION SERVICES	66.36
	101-215-720.000	CLERK	175.10
	101-253-720.000	TREASURER	75.57
	101-265-720.000	TOWNSHIP HALL AND GROUNDS	289.58
	101-305-720.000	POLICE	9,633.22

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	101-325-720.000	DISPATCH	464.49
	101-336-720.000	FIRE	11,180.05
	101-371-720.000	BUILDING	263.80
	101-691-720.000	PARKS	674.33
	226-226-720.000	SOLID WASTE	22.12
	588-588-720.000	SENIOR TRANSPORTATION	597.75
	592-172-720.000	WATER AND SEWER	3,168.73
MICHIGAN, STATE OF		Invoice Amount:	\$60.00
INV. 551-562754 7/3/2020 SOR REGISTRATION		Check Date:	08/26/2020
101-305-818.000	SOR REGISTRATION-PERIOD ENDING 6/30/20		60.00
MICHIGAN LINEN SERVICE		Invoice Amount:	\$84.35
UNIFORMS 8/14/2020 #430552		Check Date:	08/26/2020
592-172-758.000	8/14/2020		84.35
MICHIGAN LINEN SERVICE		Invoice Amount:	\$84.35
UNIFORMS 8/7/2020 #430121		Check Date:	08/26/2020
592-172-758.000	8/7/2020		84.35
GIARMARCO, MULLINS & HORTON, PC.		Invoice Amount:	\$1,905.60
LABOR ATTY. SERVICES (JOHN C. CLARK) -JULY		Check Date:	08/26/2020
101-290-828.000	LABOR ATTY SERVICES (JOHN CLARK) #23		1,905.60
New Start Fire Truck Repair		Invoice Amount:	\$500.00
GENERATOR MAIN STA#3		Check Date:	08/26/2020
101-336-851.000	STA#3 GENERATOR MAINT		500.00
New Start Fire Truck Repair		Invoice Amount:	\$500.00
STA # 2 GENERATOR MAINTENANCE		Check Date:	08/26/2020
101-336-851.000	STA#2 GENERATOR MAINT		500.00
New Start Fire Truck Repair		Invoice Amount:	\$500.00
GENERATOR MAINT STATION #1		Check Date:	08/26/2020
101-336-851.000	GENERATOR MAINT STA#1		500.00
NORTHERN CONTROLS GROUP, INC		Invoice Amount:	\$371.05
PVR ISSUES		Check Date:	08/26/2020
592-172-973.010	PVR ISSUES		371.05
OBSERVER & ECCENTRIC NEWSPAPERS		Invoice Amount:	\$705.90
WM BREAK/WATER QUALITY REPT/ZBA MTG/SU		Check Date:	08/26/2020
592-291-932.000	WM BREAK REPAIRS		108.60
592-172-901.000	WATER QUALITY REPT		173.76
101-215-813.000	ZBA MEETING		54.30
101-215-813.000	SUMMER TAXES		108.60
101-215-813.000	BROWNFIELD MTG		152.04
101-215-813.000	ROBINSON BROS HOMES		108.60
OFFICE DEPOT		Invoice Amount:	\$500.88
8.5" X 11" COPY PAPER & 3" X 4" NAMETAG INSE		Check Date:	08/26/2020
101-215-727.000	8.5" X 11" COPY PAPER		485.88
101-262-727.000	3" X 4" NAMETAG INSERTS		15.00
OFFICE DEPOT		Invoice Amount:	\$103.03
ASSESSING OFFICE SUPPLIES - INVOICE ATTACH		Check Date:	08/26/2020
101-209-727.000	BOISE 20 LB. CPY PAPER - 0196517		69.98
101-209-727.000	PENTEL MECHANICAL PENCILS - 0320431		16.56

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

	101-209-727.000	2 PACK SCISSORS - 0822593	16.49
OFFICE DEPOT		Invoice Amount:	\$285.84
OFFICE SUPPLIES		Check Date:	08/26/2020
	101-336-727.000	PILOT G-2 1.0 MM	34.98
	101-336-727.000	PILOT FINE PT	17.98
	101-336-727.000	MARKERS	7.84
	101-336-727.000	SCOTCH H180 TAPE & DISP	16.56
	101-336-727.000	ELEC STAPLER	37.50
	101-336-727.000	CORR TAPE	23.49
	101-336-727.000	MECH PENCILS	3.13
	101-336-727.000	DRY ERASE MARKERS	13.92
	101-336-727.000	TAPE DISPENSOR	1.47
	101-336-727.000	HP 950XL/951 INK CART	92.15
	101-336-727.000	HP 950XL INK CART	36.82
OFFICE DEPOT		Invoice Amount:	\$56.74
INV. 104055393001 7/6/2020 POLICE OFFICE SU		Check Date:	08/26/2020
	101-305-727.000	SHREDDER OIL	20.56
	101-325-727.000	4" BINDERS	36.18
OAKLAND COUNTY		Invoice Amount:	\$6,806.75
INV. CLM0011439 6/30/2020 CLEMIS FEES - APRI		Check Date:	08/26/2020
	101-325-818.000	MEMBERSHIP USAGE FEE	1,795.50
	101-325-818.000	MDC PARTICIPATION FEE	3,008.50
	101-325-818.000	CRIMEMAPPING	75.00
	101-325-818.000	LIVESCAN (JULY-SEPT 2020)	927.75
	101-325-818.000	MUG CAPTURE STN MAINT (JULY-SEPT 2020)	1,000.00
OAKLAND COUNTY		Invoice Amount:	\$328.50
INV. INF0002644 6/30/2020 INFO TECHNOLOGY		Check Date:	08/26/2020
	101-305-818.000	INFO TECH APRIL-JUNE 2020	328.50
OAKLAND COUNTY		Invoice Amount:	\$1,654.54
FRMS FIRE HALL CLEMIS FEE		Check Date:	08/26/2020
	101-336-824.000	FIRE HALL CLEMIS FEE APR-JUN	1,654.54
ORCHARD, HILTZ, & MCCLIMENT, INC.		Invoice Amount:	\$35,055.00
GENERAL DRIVE SAD		Check Date:	08/26/2020
	805-805-970.350	GENERAL DRIVE SAD	35,055.00
ORCHARD, HILTZ, & MCCLIMENT, INC.		Invoice Amount:	\$1,480.00
COLONY FARMS SAD PRE LIM ENGINEERING		Check Date:	08/26/2020
	805-805-970.390	COLONY FARMS SAD PRE LIM ENGINEERING	1,480.00
ORCHARD, HILTZ, & MCCLIMENT, INC.		Invoice Amount:	\$26,901.25
LITCHFIELD DRIVE- SAD		Check Date:	08/26/2020
	805-805-970.310	LITCHFIELD DRIVE- SAD	26,901.25
PARAGON LABORATORIES		Invoice Amount:	\$164.00
DBP-1 Testing		Check Date:	08/26/2020
	592-172-818.100	DBP-1 Testing	164.00
PELTZ SODDING		Invoice Amount:	\$430.40
SOD FOR WATER MAIN BREAK RESTORATION 7/		Check Date:	08/26/2020
	592-291-932.000	SOD #191797	261.90
	592-291-932.000	PALLETS WITH DEPOSIT	20.00
	592-291-932.000	SOD #192031	148.50

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

PLYM COMM COUNCIL ON AGING, INC			Invoice Amount:	\$143.09
SNEEZE GUARD REIMBURSEMENT			Check Date:	08/26/2020
	101-315-951.000-20	REIMB FOR SNEEZE GUARD		143.09
CHARTER TWSP OF PLYMOUTH			Invoice Amount:	\$710.51
SENIOR TRANSPORTATION - JULY 2020 (FULL D			Check Date:	08/26/2020
	101-955-885.000	JULY 2020 - SENIOR TRANS.EXPENSES		710.51
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$9,126.53
SHARE OF 2019-2020 SCHOOL YEAR CROSSING			Check Date:	08/26/2020
	101-315-950.000	.50 OF 18,253.05		9,126.53
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$122.51
JULY FUEL			Check Date:	08/26/2020
	101-336-759.000	JULY FUEL		122.51
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$73.66
JUNE FUEL			Check Date:	08/26/2020
	101-336-759.000	JUNE FUEL		73.66
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$184.00
JUNE FUEL INVOICES			Check Date:	08/26/2020
	101-371-759.000	INVOICE 003307		184.00
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$322.56
JULY FUEL INVOICES			Check Date:	08/26/2020
	101-371-759.000	INVOICE 003309		322.56
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$2,666.78
INV. 003307 8/3/2020 - JUNE FUEL			Check Date:	08/26/2020
	101-305-759.000	Patrol Vehicles		2,644.78
	101-325-759.000	PSA VEHICLE		22.00
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$3,238.02
INV. 003309 8/3/2020 - JULY FUEL			Check Date:	08/26/2020
	101-305-759.000	Patrol Vehicles		3,216.71
	101-325-759.000	PSA VEHICLE		21.31
PRINTING SYSTEMS INC			Invoice Amount:	\$124.51
2020 ELECTION SUPPLIES - GREEN PCT TRANS C			Check Date:	08/26/2020
	101-262-727.000	438 PCT CERTS (3.875 X 5.0) X 150		30.00
	101-262-727.000	490 ELEC POLL BOOKS X 24		84.00
	101-262-727.000	SHIPPING		10.51
AIRGAS USA, LLC			Invoice Amount:	\$397.10
OXYGEN CYLINDER RENTAL			Check Date:	08/26/2020
	101-336-836.000	OXYGEN CYLINDER RENTAL (13)		397.10
RELIABLE LANDSCAPING INC.			Invoice Amount:	\$150.00
FRIENDSHIP STATION BED CARE			Check Date:	08/26/2020
	101-265-858.000	INVOICE 91560		150.00
RELIABLE LANDSCAPING INC.			Invoice Amount:	\$63.00
INVOICE #91542 SALES RECEIPT 30972 7/30/20			Check Date:	08/26/2020
	592-291-932.000	YARDS OF TOPSOIL #30972		63.00

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

RELIABLE LANDSCAPING INC. RESTORATIONS @ NORTHERN BETWEEN JOY AN 592-291-932.000 3 YARDS OF TOPSOIL #30968	Invoice Amount: Check Date:	\$63.00 08/26/2020 63.00
RITTER GIS CITYWORKS SERVICES JULY 2020 592-172-820.000-20 CITYWORKS SERVICES	Invoice Amount: Check Date:	\$1,000.00 08/26/2020 1,000.00
ROZUM, CHARLES UNIFORM CLOTHING REIMBURSEMENT - 2020 101-305-758.000 Per Contract (Detective Bureau)	Invoice Amount: Check Date:	\$500.00 08/26/2020 500.00
SAFWARE, INC. D7 CLEANER 101-336-836.000 DC7 7001706	Invoice Amount: Check Date:	\$184.60 08/26/2020 184.60
SERENE LANDSCAPE GROUP GARDENING AND WEEDING PLYMOUTH TOWN H 101-265-776.000 INVOICE 53697	Invoice Amount: Check Date:	\$100.00 08/26/2020 100.00
SERENE LANDSCAPE GROUP MILLER PARK TURF FERTILIZATION ROUND 4 101-691-818.000 INVOICE 53696	Invoice Amount: Check Date:	\$262.50 08/26/2020 262.50
Joseph Smitherman CLOTHING REIMBURSEMENT FOR 2020 - DETEC 101-305-758.000 Union Contract Clothing Allowance	Invoice Amount: Check Date:	\$300.34 08/26/2020 300.34
TARGET SOLUTIONS LEARNING, LLC ANNUAL FEE FOR PROGRAM FOR 27 MEMBERSHI 101-336-818.000 ANNUAL MEMBERSHIP FEE 101-336-818.000 ANNUAL MAINT FEE	Invoice Amount: Check Date:	\$2,598.00 08/26/2020 2,403.00 195.00
TOWN LOCKSMITH KEYS AND LABOR FOR TOWNSHIP PARK - - INV. 101-691-931.000 Keys and labor	Invoice Amount: Check Date:	\$35.00 08/26/2020 35.00
USA BLUEBOOK MARKING EQUIPMENT #307446 7/24/20 592-291-935.000 MARKING EQUIPMENT	Invoice Amount: Check Date:	\$837.83 08/26/2020 837.83
VIGILANTE SECURITY PRN MONITORING 8/15/20-11/14/20 #645675 592-172-818.000 15275 Northville Rd.	Invoice Amount: Check Date:	\$105.00 08/26/2020 105.00
WAYNE COUNTY 2019 COUNTY INSPECTION COSTS - ROADS INV. 101-446-818.000 2019 COUNTY INSPECTION COSTS - ROADS	Invoice Amount: Check Date:	\$540.65 08/26/2020 540.65
WCA ASSESSING APPRAISAL SERVICES RENDERED - SEPTEMBER 2 101-209-818.000 Appraisal Services Rendered (Contract) 101-209-818.000 Co-Star Services	Invoice Amount: Check Date:	\$24,604.58 08/26/2020 24,447.91 156.67
WCA ASSESSING WCA ASSESSING JULY 2020 SPECIAL BILLING - C 101-209-818.000 JULY 2020 SPECIAL BILLING - APPRAISAL	Invoice Amount: Check Date:	\$868.98 08/26/2020 868.98

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION****Great Lakes Water Authority**

GLWA - INDUSTRIAL WASTE CONTROL BILL 8/17
592-441-743.000

GLWA - INDUSTRIAL WASTE CONTROL BILL

Invoice Amount: \$5,958.41

Check Date: 08/26/2020
5,958.41

WIN-911 SOFTWARE

MAINT & SUPPORT #242XT160-20201020 7/22/2
592-172-973.010

Annual Renewal of Software

Invoice Amount: \$495.00

Check Date: 08/26/2020
495.00

PHILIP MOONEY

SHELTER RESERVATION REFUND - PERMIT 1759
101-290-964.000-20

REFUND DUE TO COVID 19

Invoice Amount: \$125.00

Check Date: 08/26/2020
125.00

MARILYN STEVENS

SHELTER RESERVATION REFUND - PERMIT 1740
101-290-964.000-20

REFUND DUE TO COVID 19

Invoice Amount: \$125.00

Check Date: 08/26/2020
125.00

TIMOTHY KELLEY

PAVILION RESERVATION REFUND - PERMIT 1738
101-290-964.000-20

REFUND DUE TO COVID 19

Invoice Amount: \$225.00

Check Date: 08/26/2020
225.00

ROBERT HARRIS

PAVILION RESERVATION REFUND - PERMIT 1757
101-290-964.000-20

REFUND DUE TO COVID 19

Invoice Amount: \$100.00

Check Date: 08/26/2020
100.00

Total Amount to be Disbursed: \$1,096,623.07

Charter Township of Plymouth

AP Invoice Listing - Board Report

Refunds Page 8/19/20
VENDOR INFORMATION**INVOICE INFORMATION**

Highland Products Group, LLC			Invoice Amount:	\$6,230.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.016	BPZ19-0006 - PB19-0322		6,230.00
MCKENNA ASSOCIATES INC			Invoice Amount:	\$82.50
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.015	BPZ18-0007		82.50
Lakeshore Contracting Services LLC			Invoice Amount:	\$1,000.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.001	BBD16-0044 - PB16-0419		1,000.00
Lakeshore Contracting Services LLC			Invoice Amount:	\$1,000.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.001	BBD16-0045 - PB16-0420		1,000.00
J.S. VIG CONSTRUCTION CO.			Invoice Amount:	\$3,000.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.003	BP18-0036 - PB18-0706		3,000.00
ST KENNETH CHUR			Invoice Amount:	\$5,000.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.010	BBD19-0019 - PB18-0706		5,000.00
MENARD BUILDERS, INC			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.001	BP18-0022 - PB18-0350		1,500.00
MENARD BUILDERS, INC			Invoice Amount:	\$3,000.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.010	BBD20-0003 - PB18-0350		3,000.00
C & M The Woods LLC			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.001	BP19-0047 - PB19-0956		1,500.00
OSCAR W LARSON COMPANY			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.001	BP19-0055 - PB19-1048		1,500.00
OSCAR W LARSON COMPANY			Invoice Amount:	\$3,500.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.011	BPZ19-0019		3,500.00
SHAW CONSTRUCTION & MGMT			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.001	BP20-0016 - PB20-0155		1,500.00
Cook Building Co			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.001	BP19-0049 - PB19-0985		1,500.00
Lakeshore Contracting Services LLC			Invoice Amount:	\$50,000.00
BD Bond Refund			Check Date:	08/16/2020
	101-371-283.010	BBD18-0016 - PB16-0419		50,000.00

Charter Township of Plymouth **AP Invoice Listing - Board Report**

VENDOR INFORMATION**INVOICE INFORMATION****St. Kenneth Church**

BD Bond Refund

*101-371-283.011**BPZ19-0016***Invoice Amount:****\$31,466.00****Check Date:****08/16/2020***31,466.00***MODERN METHOD CONSTRUCTION INC**

BD Bond Refund

*101-371-283.016**BE18-0006***Invoice Amount:****\$726.00****Check Date:****08/16/2020***726.00***Total Amount to be Disbursed:****\$112,504.50**

Charter Township of Plymouth

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Weekly

8/19/20

VENDOR INFORMATION

INVOICE INFORMATION

ALERUS FINANCIAL

MERS-457 PLAN - ALL EMPLOYEES 8-14-2020 PA

101-100-239.000
101-100-239.000

457 CONT. PRE-TAX
457 CONT. ROTH POST-TAX

Invoice Amount: **\$19,405.03**
Check Date: **08/19/2020**

19,059.31
345.72

ALERUS FINANCIAL

MERS - DC FT EMPLOYEES -- EMPLOYEE CONTRI

101-100-231.000
101-100-231.000

MERS EMPLOYEE PRE TAX
MERS EMPLOYEE POST TAX

Invoice Amount: **\$6,970.63**
Check Date: **08/19/2020**

6,382.33
588.30

ALERUS FINANCIAL

MERS - TIDERINGTON OFF CYCLE REPORTING -

101-100-256.000

TIDERINGTON OFF CYCLE REPORTING

Invoice Amount: **\$1,462.47**
Check Date: **08/19/2020**

1,462.47

ALERUS FINANCIAL

MERS - DC FT EMPLOYEES -- EMPLOYER CONTRI

101-171-714.010
101-201-714.010
101-215-714.010
101-253-714.010
101-265-714.010
101-305-714.010
101-305-714.030
101-325-714.010
101-336-714.010
101-336-714.020
101-371-714.010
226-226-714.010
588-588-714.010
592-172-714.010
592-291-714.000
592-291-714.040
101-262-714.000
101-100-231.000
101-100-231.000

SUPERVISOR'S OFFICE
IT DIRECTOR
CLERK'S OFFICE
TREASURER'S OFFICE
BUILDING MANAGER (HAACK)
PD DEPT. (TIDERINGTON, GORDON)
PD DEPT. - UNION
DISPATCH DEPT.
FIRE - JOWSEY
FIRE - UNION
BUILDING DEPT.
SOLID WASTE DEPT.
SENIOR TRANS
PUBLIC SERVICES
DPW - FELLRATH, HAMANN
DPW
ELECTIONS (TERRELL)
RODRIGUEZ (DISPATCH) LOAN
NELSON (DPW) LOAN

Invoice Amount: **\$23,341.98**
Check Date: **08/19/2020**

999.30
577.44
1,855.67
982.56
267.12
674.40
3,153.78
2,078.04
282.96
4,995.93
1,588.39
353.88
236.36
926.16
1,010.31
2,715.00
298.69
191.47
154.52

ADP INC

ADP ENTERPRISETIME & WORKFORCE NOW & P

101-290-941.000
101-290-941.000
101-290-941.000

Enterprise eTime
Workforce Now
Payroll Services

Invoice Amount: **\$4,174.03**
Check Date: **08/19/2020**

2,360.95
766.50
1,046.58

C.O.A.M. - PLYMOUTH TOWNSHIP

COAM UNION DUES -JULY 2020

101-100-232.050
101-100-232.050
101-100-232.050
101-100-232.050
101-100-232.050

Fetner, William J.
Hoffman, Marc
Krebs, Ryan
Rupard, Bryan
Coffell, Steven

Invoice Amount: **\$377.40**
Check Date: **08/19/2020**

75.48
75.48
75.48
75.48
75.48

COMCAST

COMCAST HIGH SPEED INTERNET - FS #3 - ACC

101-336-921.000

- FS #3 (INCLUDES START UP)

Invoice Amount: **\$463.89**
Check Date: **08/19/2020**

463.89

CONSUMERS ENERGY

MONTHLY CHARGES - AUGUST 2020 (DETAILS B

101-265-854.000

FRIENDSHIP STATION - 1000 257103478

Invoice Amount: **\$131.93**
Check Date: **08/19/2020**

16.71

Charter Township of Plymouth

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VENDOR INFORMATION

INVOICE INFORMATION

588-588-921.000	SENIOR TRANS 1000 2571-3478	1.07
101-691-921.000	TWP. PARK 1000 257103262	19.67
101-336-921.000	FIRE STATION #2 - 1000 2571-3403	94.48

MICH MUN RISK MGT AUTHORITY ECP

MMRMA-D20071015 JULY 2020

Invoice Amount: **\$15,135.54**
Check Date: **08/19/2020**

101-336-921.000	Electric Choice	1,708.03
592-172-921.000	Electric Choice	1,485.94
101-171-921.000	Electric Choice	891.32
101-201-921.000	Electric Choice	476.93
101-209-921.000	Electric Choice	255.14
101-215-921.000	Electric Choice	774.59
101-253-921.000	Electric Choice	323.51
101-305-921.000	Electric Choice	2,559.74
101-325-921.000	Electric Choice	532.79
101-325-921.400	Electric Choice	532.79
101-336-921.000	Electric Choice	376.87
101-371-921.000	Electric Choice	561.14
101-371-921.500	Electric Choice	314.34
592-172-921.000	Electric Choice	738.74
592-172-921.000	Electric Choice	1,425.61
101-336-921.000	Electric Choice	831.92
101-691-921.000	Electric Choice	799.39
101-265-921.000	Electric Choice	513.95
588-588-921.000	Electric Choice	32.80

P.O.A.M. - PLYMOUTH TOWNSHIP

POAM & DISPATCH UNION DUES -AUGUST 2020

Invoice Amount: **\$2,103.90**
Check Date: **08/19/2020**

101-100-232.010	POAM Union Dues	1,543.08
101-100-232.040	Dispatch Union Dues	560.82

TEAMSTER LOCAL # 214

TEAMSTER LOCAL #214 AUGUST 2020 (DETAILS)

Invoice Amount: **\$520.00**
Check Date: **08/19/2020**

101-100-232.030	Bartlett, James	58.00
101-100-232.030	Kitchen, Spencer	53.00
101-100-232.030	Krueger, Randy	61.00
101-100-232.030	Melow, Steven	61.00
101-100-232.030	Nelson, David	58.00
101-100-232.030	Overaitis, Joseph	58.00
101-100-232.030	Pumphrey, Z	58.00
101-100-232.030	Scholten, James	58.00
101-100-232.030	Thomas, James	55.00

TECHNICAL, PROFESSIONAL AND OFFICE-

TPOAM UNION DUES - JULY 2020

Invoice Amount: **\$511.50**
Check Date: **08/19/2020**

101-100-232.060	BONO, JENNIFER A.	15.50
101-100-232.060	DOOLEY, DEB	15.50
101-100-232.060	GORDON, CHERYL	31.00
101-100-232.060	HAACK, DAVID	31.00
101-100-232.060	JOWSEY, NANCY	31.00
101-100-232.060	KLINE, ANNE E.	31.00
101-100-232.060	LATAWIEC, KELLY	31.00
101-100-232.060	LECLAIR, DIANE L.	31.00
101-100-232.060	MACDONALD, KENNETH E.	31.00
101-100-232.060	MARTIN, CAROL R.	31.00
101-100-232.060	PALMARCHUK, CHERI	31.00
101-100-232.060	TRUESDELL, MARY ANN	15.50
101-100-232.060	VISEL, SARAH J.	31.00

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION**

101-100-232.060	DAN ATKINS	15.50
101-100-232.060	CAROL MACDONELL	15.50
101-100-232.060	GLENN MILLER	15.50
101-100-232.060	DEVOTO, CLAUDIA	15.50
101-100-232.060	HALSTEAD, ANNA	31.00
101-100-232.060	TERRELL, DENISA	31.00
101-100-232.060	GELETZKE, ALICE	15.50
101-100-232.060	RICHARDSON, MIKE	15.50

WOW! BUSINESS

POLICE DEPT. SERVICE CHGS - AUGUST 2020 AC

101-305-921.000

POLICE DEPT. AUGUST 2020

Invoice Amount:**\$11.41****Check Date:****08/19/2020**

11.41

WOW! BUSINESS

AUGUST 2020 ACCT. # 012296705

101-265-854.000

SENIOR UTIL

588-588-921.000

SENIOR TRANS

Invoice Amount:**\$19.94****Check Date:****08/19/2020**

18.74

1.20

Total Amount to be Disbursed:**\$74,629.65**

Charter Township of Plymouth
AP Invoice Listing - Board Report

P. Bonds Page: 8/19/20

VENDOR INFORMATION

35TH DISTRICT COURT
BOND RECEIPT 08-13-2020

702-100-087.000

INVOICE INFORMATION

Invoice Amount: \$500.00
Check Date: 08/17/2020
500.00

BOND RECEIPT NUMBER 8171

Total Amount to be Disbursed: \$500.00

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

ADVANCED DISPOSAL

DPW RESI COMPOST - JULY 2020

226-226-810.400

226-226-810.400

226-226-810.400

COMPOST 07/10/20

Fuel Surcharge

Compliance Fee

Invoice Amount:

\$77.70

Check Date:

08/25/2020

65.00

6.26

6.44

APOLLO FIRE EQUIPMENT

BRACKETS AND ACCESSORIES FOR LADDER 3

101-336-851.000

101-336-851.000

101-336-851.000

101-336-851.000

101-336-851.000

101-336-851.000

101-336-851.000

101-336-851.000

101-336-851.000

101-336-851.000

MOUNT BRACKET

ADJ CHAIN SAW MOUNT

2" FOOTMAN BRACKMAN BRACKET

9" UTILITY STRAP

15" UTILITY STRAPS

NEO CUP MOUNT

BOLT CUTTER BRACKET

AXE HOLDERS HORZ

ZICO PREMIX HOLDER

UPS

Invoice Amount:

\$1,427.22

Check Date:

08/25/2020

276.00

94.00

27.00

34.00

35.00

600.00

85.00

168.00

49.00

59.22

APOLLO FIRE EQUIPMENT

CONFIDENCE PLUS MASK CLEANER

101-336-836.000

101-336-836.000

CONFIDENCE PLUS MASK CLEANER

FREIGHT

Invoice Amount:

\$100.85

Check Date:

08/25/2020

90.00

10.85

B & R JANITORIAL SUPPLY

JANITORIAL SUPPLY FIRE DEPT

101-336-776.000

INVOICE 189603-4

Invoice Amount:

\$22.68

Check Date:

08/25/2020

22.68

B & R JANITORIAL SUPPLY

CLEANING SUPPLIES

101-336-776.000

ANGEL SOFT BATH TISSUE

Invoice Amount:

\$92.03

Check Date:

08/25/2020

GPC1688

92.03

B & R JANITORIAL SUPPLY

10 CUSTOM FLOOR STANDS FOR 2020

ELECT

101-315-951.000-20

CUSTOM FLOOR STANDS

Invoice Amount:

\$1,150.00

Check Date:

08/25/2020

1,150.00

Bidigare Contractors, Inc.

#10864 7/30/2020 HIDDEN CREEK WATER MAIN

592-291-932.000

HIDDEN CREEK WATER MAIN REPAIR

Invoice Amount:

\$6,637.50

Check Date:

08/25/2020

6,637.50

Bidigare Contractors, Inc.

#10866 7/30/20 ANN ARBOR ROAD & MARILYN

592-291-932.000

ANN ARBOR ROAD & MARILYN RESTORATION

Invoice Amount:

\$7,787.50

Check Date:

08/25/2020

7,787.50

Bidigare Contractors, Inc.

#10865 7/30/20 ANN ARBOR ROAD PATCH SETT

592-291-932.000

ANN ARBOR ROAD PATCH SETTLEMENT

Invoice Amount:

\$4,677.50

Check Date:

08/25/2020

4,677.50

OCCUPATIONAL HEALTH CENTERS OF MI

PARKS - PREPLACEMENT PHYSICAL - PATRICK LE

101-691-818.000

PATRICK LEEDLE -PREPLACEMENT

Invoice Amount:

\$51.00

Check Date:

08/25/2020

51.00

OCCUPATIONAL HEALTH CENTERS OF MI

UDS COLLECT AND RANDOM BREATH ALCOHOL-

592-172-818.000

Randy Krueger (DPW)

Invoice Amount:

\$92.00

Check Date:

08/25/2020

92.00

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION****CDW GOVERNMENT INC**

MICROSOFT SUFACE GO 2 M3 8GB 128 GB SSD
101-336-978.001

Invoice Amount: \$652.91

Check Date: 08/25/2020
652.91

MICROSOFT SURFACE GO 2 M3 PROC 8GB 128

CHRISTENSEN'S PLANT CENTER

WMB 2 39851 FIVE MILE RD GREEK ORTHODOX
592-291-932.000

Invoice Amount: \$249.75

Check Date: 08/25/2020
249.75

ULMUS FRONTIER HYBRID ELM 2.5"

CODE SAVVY CONSULTANTS LLC

PLAN REVIEW OF DRY CHEMICAL FIRE SUPPRES
101-371-818.000

Invoice Amount: \$605.00

Check Date: 08/25/2020
605.00

INVOICE 1688 RIVIAN, PAINT SPRAY BOOTH

CORRIGAN OIL COMPANY

#7077082 7/17/2020

Invoice Amount: \$1,144.84

Check Date: 08/25/2020

592-291-759.000

Fuel Tax Recap

9.10

592-291-759.000

Environmental Fee

6.95

592-291-759.000

GE87 GAS-ETHANOL

805.05

592-291-759.000

DYED ULTRA LOW SULFUR #2 MIX

323.74

CORRIGAN OIL COMPANY

#7058843 6/19/2020

Invoice Amount: \$1,268.53

Check Date: 08/25/2020

592-291-863.000

Fuel Tax Recap

9.77

592-291-863.000

Environmental Fee

6.95

592-291-863.000

GE87 GAS-ETHANOL

679.80

592-291-863.000

DYED ULTRA LOW SULFUR #2 MIX

572.01

CORRIGAN OIL COMPANY

#7085571 7/30/2020

Invoice Amount: \$1,295.99

Check Date: 08/25/2020

592-291-759.000

Fuel Tax Recap

10.12

592-291-759.000

Environmental Fee

6.95

592-291-759.000

GE87 GAS-ETHANOL

565.85

592-291-759.000

DYED ULTRA LOW SULFUR #2 MIX

713.07

CRAWFORD DOOR SALES

STA#3 LM MOTOR TROLLEY

Invoice Amount: \$2,058.00

Check Date: 08/25/2020

101-336-776.000

STA#3 LM TROLLEY MOTOR REPLACED

2,058.00

DELL MARKETING L.P.

QUOTE NO. 3000062725522.1 DELL LATITUDE
592-172-978.001

Invoice Amount: \$2,108.56

Check Date: 08/25/2020

QUOTE NO. 3000062725522.1 DELL LATITUDE 2,108.56

DPW & SON, LLC

#50434 8/01/30 TAP SHEET COSTS

Invoice Amount: \$7,075.00

Check Date: 08/25/2020

592-291-935.000

1"LONG TAP WS6695 9439 BROOKLINE

1,000.00

592-291-935.000

1"LONG TAO WS6699 49501 POWELL ADD DIR

2,275.00

592-291-935.000

1"SHORT TAP WS6718 11738 TUSCANY CT

800.00

592-291-935.000

1"LONG TAP WS6716 8989 RIDGE RD ADD FO

3,000.00

ETNA SUPPLY

QUOTE 06/22/2020

Invoice Amount: \$3,542.00

Check Date: 08/25/2020

592-291-932.000

COUPLING

435.00

592-291-932.000

ROMAC PN 33838

768.00

592-291-932.000

REPAIR CLAMP

832.00

592-291-932.000

ROMAC PN 40195

241.00

592-291-932.000

REPAIR CLAMP OD RANGE

425.00

592-291-932.000

ROMAC PN 30834

376.00

592-291-932.000

ROMAC PN 30081

465.00

Charter Township of Plymouth

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VENDOR INFORMATION

INVOICE INFORMATION

FASTSIGNS			Invoice Amount:	\$361.29
COLLECTION BOXES LABELS			Check Date:	08/25/2020
	101-265-776.000	INVOICE I-L-76008		361.29
FIRE SERVICE MANAGEMENT			Invoice Amount:	\$31.00
INMAN - GEAR REPAIR			Check Date:	08/25/2020
	101-336-758.100	INMAN GEAR REPAIR		31.00
GFL Environmental USA, Inc.			Invoice Amount:	\$225.00
DPW RECYCLE CENTER			Check Date:	08/25/2020
	226-226-810.500	07/07/20 - CARDBOARD/PAPER		225.00
GFL Environmental USA, Inc.			Invoice Amount:	\$225.00
DPW RECYCLE CENTER			Check Date:	08/25/2020
	226-226-810.500	07/21/20 - CARDBOARD/PAPER		225.00
GARRETT AUTO AND TRUCK SVC			Invoice Amount:	\$2,403.76
REPAIR WORK			Check Date:	08/25/2020
	101-371-863.000	INVOICE 42837		2,403.76
GMIS International			Invoice Amount:	\$100.00
GMIS Membership Dues			Check Date:	08/25/2020
	101-201-960.000	GMIS Membership Renewal		100.00
GUARDIAN ALARM CO			Invoice Amount:	\$200.97
SENIOR CITIZEN BLDG FIRE ALARM			Check Date:	08/25/2020
	101-265-858.000	INVOICE 210285568		200.97
GUARDIAN ALARM CO			Invoice Amount:	\$279.24
ALARM BILLING 46555 PORT STREET #21029348			Check Date:	08/25/2020
	592-172-818.000	MONITORING, MAINTENANCE & SERVICES		279.24
HALT FIRE INC			Invoice Amount:	\$1,655.63
#33926 BRACKETS FOR MOUNTING ACCESSORIE			Check Date:	08/25/2020
	101-336-863.000	#33926 BRACKETS FOR MOUNTING ACCESSOR		1,655.63
HALT FIRE INC			Invoice Amount:	\$801.53
#11526 ELECTRICAL WORK			Check Date:	08/25/2020
	101-336-863.000	#11526 ELECTRICAL WORK		801.53
HALT FIRE INC			Invoice Amount:	\$216.12
#23443 A/C ADDED FREON			Check Date:	08/25/2020
	101-336-863.000	#23443 ADDED FREON TO A/C		216.12
Heise, Kurt L.			Invoice Amount:	\$593.00
REIMBURSEMENT FOR DEDICATION PLAQUE FO			Check Date:	08/25/2020
	101-691-931.000	PLAQUE FOR KAY ARNOLD PAVILION		593.00
J & B MEDICAL SUPPLY INC			Invoice Amount:	\$97.76
LIFEPAK CARRY CASE			Check Date:	08/25/2020
	101-336-836.000	MTR11260-000039	PHYSIO CONTROL LIF	97.76
J & B MEDICAL SUPPLY INC			Invoice Amount:	\$644.63
MEDICAL SUPPLIES			Check Date:	08/25/2020
	101-336-836.000	DMH01-550-018	MEDIC-KITS EMT KIT,	466.53
	101-336-836.000	DIGFL12-4	FRONTLINE 12 NITRILE EXAM GL	178.10

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION**

J & B MEDICAL SUPPLY INC		Invoice Amount:	\$532.80
N100 MASKS		Check Date:	08/25/2020
	101-315-951.000-20 N100 MASKS		532.80
J & B MEDICAL SUPPLY INC		Invoice Amount:	\$177.60
N100 MASKS		Check Date:	08/25/2020
	101-315-951.000-20 N100 MASKS		177.60
ADVANCED PROPERTY EXPOSURE INC.		Invoice Amount:	\$1,980.00
SMART CAPTURE LICENSSE		Check Date:	08/25/2020
	101-336-824.000 ANNUAL SMART CAPTURE LICENSES		1,980.00
KONICA MINOLTA BUSINESS SOLUTIONS		Invoice Amount:	\$137.39
MAINTENANCE #266934465 6/1/20-6/30/20		Check Date:	08/25/2020
	101-171-727.000 C454e Copier Maintenance		28.85
	101-201-851.000 Maint.		5.50
	101-371-851.500 Maint.		6.87
	226-226-727.000 Maint.		6.87
	592-172-818.000 Maint		89.30
LARSON, OSCAR W. CO.		Invoice Amount:	\$424.16
QUARTERLY B OPERATOR INSPECTION AND ACT		Check Date:	08/25/2020
	592-291-863.000 LABOR		237.50
	592-291-863.000 HS&E		10.00
	592-291-863.000 MATERIALS		176.66
MARK ANTHONY CONTRACTING, INC.		Invoice Amount:	\$255,711.48
LITCHFIELD DRIVE SAD - PAY APPLICATION #1		Check Date:	08/25/2020
	805-805-970.310 LITCHFIEL DRIVE SAD - PAY APPLICATION #1		255,711.48
MESSINA CONCRETE INC		Invoice Amount:	\$482.30
CONCRETE FOR 2 WMB RESTORATIONS WENDO		Check Date:	08/25/2020
	592-291-932.000 14774 THORNRIDGE 7/14/20 2.5 YDS 6 SACK		482.30
MESSINA CONCRETE INC		Invoice Amount:	\$444.67
CONCRETE FOR 2 WMB RESTORATIONS WENDO		Check Date:	08/25/2020
	592-291-932.000 12619 WENDOVER 7/15/20 2.25 YDS 6 SACK C		444.67
State of Michigan		Invoice Amount:	\$2,189.42
UIA - 2019 REIMBURSING EMPLOYER BILLING F		Check Date:	08/25/2020
	101-290-722.000 UIA -2019 REIMBURSING EMPLOYER BILLING		2,189.42
MICHIGAN MUNICIPAL LEAGUE		Invoice Amount:	\$58.56
CLASSIFIED AD FOR DPW SEASONAL SERVICE T		Check Date:	08/25/2020
	592-172-889.000 CLASSIFIED AD FOR DPW SEASONAL SERV. TE		58.56
Ferguson Waterworks		Invoice Amount:	\$5,699.04
METER PARTS		Check Date:	08/25/2020
	592-172-780.000 3 HYD MTR USG W/ NST COUP		3,904.50
	592-172-780.000 LF 2 719QT BFP		1,302.21
	592-172-780.000 ADAPT 5MHYDRANT 2.5 NST-M		210.99
	592-172-780.000 LF 2 BRS 600# WOG THRD 2 PC FP BV		163.17
	592-172-780.000 DELIVERY		118.17
Ferguson Waterworks		Invoice Amount:	\$8,559.76
METER PARTS		Check Date:	08/25/2020
	592-172-780.000 LF 5/8X3/4 T10 MTR P/C NED2B11RPDG11		2,794.80

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION**

	592-172-780.000	1 T10 MTR P/C USG (NED2F11RPEG11)	5,764.96
MICHIGAN LINEN SERVICE		Invoice Amount:	\$84.35
UNIFORMS 7/17/20 #428941		Check Date:	08/25/2020
	592-172-758.000	7/17/20	84.35
MICHIGAN LINEN SERVICE		Invoice Amount:	\$84.35
UNIFORMS 7/24/20 #429320		Check Date:	08/25/2020
	592-172-758.000	7/24/20	84.35
MICHIGAN LINEN SERVICE		Invoice Amount:	\$84.35
UNIFORMS 7/31/2020 #429718		Check Date:	08/25/2020
	592-172-758.000	7/24/20	84.35
NORTH BREATHING AIR, LLC		Invoice Amount:	\$595.00
ANNUAL COMPRESSOR SERVICE		Check Date:	08/25/2020
	101-336-851.000	COMPRESSOR MAINT	595.00
NORTHERN LAKE SERVICE, INC.		Invoice Amount:	\$488.70
DW SAMPLES RECIEVED ON 7/8/20. COLLECTED		Check Date:	08/25/2020
	592-172-818.100	CYANOTOXINS-EPA METHOD 545	355.50
	592-172-818.100	MICROCYSTINS-EPA METHOD 546	133.20
OFFICE DEPOT		Invoice Amount:	\$102.30
OFFICE SUPPLIES JULY 2020		Check Date:	08/25/2020
	592-172-727.000	INDEX CARDS LINED	4.68
	592-172-727.000	INDEX CARDS UNLINED	2.38
	592-172-727.000	GERMICIDAL WIPES	69.96
	592-172-727.000	LATEX GLOVES	25.28
OFFICE DEPOT		Invoice Amount:	\$383.06
BLACK STICK PENS FOR PRECINCTS 1-12, CORRE		Check Date:	08/25/2020
	101-262-727.000	BLACK STICK PENS	359.08
	101-215-727.000	CORRECTION TAPE	23.98
OFFICE DEPOT		Invoice Amount:	\$61.83
LAMINATING SHEETS, DATE STAMPS, BLACK STI		Check Date:	08/25/2020
	101-262-727.000	8.5 X14 LAMINATING SHEETS	24.87
	101-262-727.000	DATE STAMPS	29.98
	101-262-727.000	BLACK STICK PENS	6.98
OFFICE DEPOT		Invoice Amount:	\$(39.98)
CREDIT - RETURN TWO DATE STAMPS		Check Date:	08/25/2020
	101-262-727.000	CREDIT - DATE STAMPS	(39.98)
OFFICE DEPOT		Invoice Amount:	\$70.59
MANILA FOLDERS, DATE STAMPERS, 5160 MAILI		Check Date:	08/25/2020
	101-262-727.000	5160 LABELS	52.95
	101-215-727.000	MANILA FOLDERS	9.80
	101-262-727.000	5160 LABELS (OD)	7.84
OFFICE DEPOT		Invoice Amount:	\$59.97
MANILA FOLDERS, DATE STAMPERS, 5160 MAILI		Check Date:	08/25/2020
	101-262-727.000	DATE STAMPS	59.97
OFFICE DEPOT		Invoice Amount:	\$1.30
COPY PAPER, POST-IT TABS, CONSTR PAPER, PE		Check Date:	08/25/2020

Charter Township of Plymouth

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VENDOR INFORMATION**INVOICE INFORMATION**

	101-215-727.000	RED CONSTR PAPER	1.30
AIRGAS USA, LLC		Invoice Amount:	\$199.88
#9103168850 7/16/2020 GAS FOR SERVICE LINE		Check Date:	08/25/2020
592-291-935.000	CARBON DIOXIDE GG/IND 20LB		95.91
592-291-935.000	PRODUCT SURCHARGE		2.58
592-291-935.000	CYMRETEST HYDRO OR REQUALIFICATION TE		90.00
592-291-935.000	HAZMAT CHARGE		11.39
RELIABLE LANDSCAPING INC.		Invoice Amount:	\$105.00
RESTORATIONS @ 39851 FIVE MILE ROAD GREE		Check Date:	08/25/2020
592-291-932.000	2 YARDS OF TOPSOIL #30835		42.00
592-291-932.000	3 YARDS OF TOPSOIL #30837		63.00
RELIABLE LANDSCAPING INC.		Invoice Amount:	\$1,275.00
WEEDING OF LANDSCAPE BEDS		Check Date:	08/25/2020
101-265-858.000	INVOICE 91354		750.00
101-336-776.000	INVOICE 91354		525.00
RELIABLE LANDSCAPING INC.		Invoice Amount:	\$147.00
INVOICE #91207 7/1/2020		Check Date:	08/25/2020
592-291-932.000	YARDS OF TOPSOIL #30769 6/29/20		63.00
592-291-932.000	YARDS OF TOPSOIL #30777 6/30/20		84.00
SEHI COMPUTER PRODUCTS		Invoice Amount:	\$247.70
Print Cartridge CE55A		Check Date:	08/25/2020
592-172-727.000	Print Cartridge CE55A		241.70
592-172-727.000	FREIGHT		6.00
SITE ONE LANDSCAPE SUPPLY		Invoice Amount:	\$159.35
IRRIGATION PARTS 39851 5 MILE RD WMB RES		Check Date:	08/25/2020
592-291-932.000	39851 5 MILE ROAD WMB RESTORATIONS		159.35
SITE ONE LANDSCAPE SUPPLY		Invoice Amount:	\$412.84
IRRIGATION REPAIR ITEMS FOR INVENTORY #1		Check Date:	08/25/2020
592-172-776.000	IRRIGATION PARTS FOR INVENTORY OF TOW		412.84
SITE ONE LANDSCAPE SUPPLY		Invoice Amount:	\$356.46
REPLACEMENT OF 2" SOLENOID VALVES AT SOC		Check Date:	08/25/2020
592-172-776.000	REPLACEMENT OF 2" SOLENOID VALVES AT S		356.46
SITE ONE LANDSCAPE SUPPLY		Invoice Amount:	\$87.83
REPAIRS AT LAKEPOINTE SOCCER PARK		Check Date:	08/25/2020
592-172-776.000	REPAIRS AT LAKEPOINTE		87.83
SPALDING DEDECKER ASSOCIATES, INC.		Invoice Amount:	\$72,400.25
SPALDING DEDECKER - JULY 2020 INVOICE FOR		Check Date:	08/25/2020
101-371-818.500	#83485-PLYMOUTH TWP ENGINEERING MTGS		500.00
592-172-820.000	#83512 -PLYMOUTH TWP GIS		960.00
101-336-776.000	#83621 - FIRE STATION #2		10,071.25
101-446-818.000	#83510 - SIDEWALK ASSESSMENT		21,586.00
592-172-820.000	#83523 - EMERG. WATER MAIN REPAIRS CON		335.00
592-172-820.000	#83525-- 2020-MISS DIG DESIGN TICKET,DPW		1,558.00
592-291-970.000-20	#83620 - CIPP-JOY ROAD SEWER		3,022.50
592-291-970.000-20	#83620-CIPP-RIVERSIDE DRIVE		3,022.50
592-291-970.000-20	#83620-CIPP-GENERAL DRIVE #1		3,022.50
592-291-970.000-20	#83620-CIPP- GENERAL DRIVE #2		3,022.50
592-291-970.000-20	#83620-CIPP- NORTHVILLE ROAD #1		3,022.50

Charter Township of Plymouth

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VENDOR INFORMATION

INVOICE INFORMATION

592-291-970.000-20	#83620-CIPP-NORTHVILLE ROAD #2	3,022.50
592-291-970.000-20	#83620-CIPP - ANN ARBOR ROAD	3,022.50
592-291-970.000-20	#83620-CIPP- BRADBURY CONDO	3,022.50
592-291-970.000-20	#83620-CIPP-NORTHVILLE WATER PRV FACILI	3,022.50
101-371-818.000	#83486 - THE HENRY PROJECT - PHOENIX MILL	1,300.00
592-172-820.000	#83522-LAKEVIEW CVONDO STORM CE	250.00
101-290-818.000	#83526-COMCAST JB0000345364 - HELM ST	340.00
101-290-818.000	#83527-COMCAST JB0000322179-47673 5 MIL	340.00
101-290-818.000	#85328=123 NET - 14356 GENOA CT - DPW	340.00
101-290-818.000	#83529-COMCAST JB0000343018-B AA RD	1,015.00
101-290-818.000	#83530-COMCAST JB 0000338026-44895 HEL	627.50
101-371-818.000	#83321 - PLYMOUTH TWP. ENG. TASKS 2020	5,975.00
Tredroc Tire Service		
SERVICE CALL FOR TIRE REPLACEMENT #23443	Invoice Amount:	\$727.25
101-336-863.000	Check Date:	08/25/2020
#23443 TIRE REPLACEMENT		727.25
SIMPLIFILE, LC		
RECORDING FEES AT WAYNE COUNTY	Invoice Amount:	\$21.00
101-290-698.200	Check Date:	08/25/2020
SATISFACTION OF WATER LEIN 46985 N TERR		21.00
WCA ASSESSING		
APPRAISAL SERVICES RENDERED - AUGUST 2020	Invoice Amount:	\$24,604.58
101-209-818.000	Check Date:	08/25/2020
101-209-818.000	Appraisal Services Rendered (Contract)	24,447.91
	Co-Star Services	156.67
WAYNE COUNTY DEPT OF ENVIRONMENT		
DRAIN MAINTENANCE FEES 2020	Invoice Amount:	\$2,596.30
592-172-973.030	Check Date:	08/25/2020
Drain Maintenance Fees Commons Areas		2,596.30
Great Lakes Water Authority		
GLWA - JUNE 2020 WATER USAGE CHARGES	Invoice Amount:	\$466,151.67
592-441-741.000	Check Date:	08/25/2020
GLWA - JUNE 2020 WATER USAGE		466,151.67
Great Lakes Water Authority		
GLWA - INDUSTRIAL WASTE CONTROL BILL 6/30	Invoice Amount:	\$5,698.15
592-441-743.000	Check Date:	08/25/2020
GLWA - INDUSTRIAL WASTE CONTROL BILL		5,698.15
Dell Financial Services, LLC.		
COMPUTER LEASES - 9/1/2020--11/30/2020 (TR	Invoice Amount:	\$513.08
101-253-978.500	Check Date:	08/25/2020
101-215-978.500	TREASURER DEPT. COMPUTER (LEASE-QTLY)	171.00
101-371-978.500	CLERK DEPT. COMPUTER (LEASE-QTLY)	299.32
	BUILDING DEPT. COMPUTER (LEASE=QT;Y)	42.76
Dell Financial Services, LLC.		
COMPUTER LEASES - BLDG, HR, PARKS, IT -- 9-1	Invoice Amount:	\$563.26
101-371-978.500	Check Date:	08/25/2020
101-171-978.500	BUILDING - 1 COMPTUER	70.40
101-691-978.500	HR - 1 COMPUTER	70.40
101-201-978.500	PARK - 1 COMPUTER	70.41
	INFO SERVICES - 5 COMPUTERS (SEE NOTES)	352.05
Dell Financial Services, LLC.		
COMPUTER LEASES -9/1/2020 -- 11/30/2020 - PD	Invoice Amount:	\$472.05
101-305-978.500	Check Date:	08/25/2020
101-305-978.500	POLICE DEPT.. COMPUTER (LEASE-QTLY)	472.00
	.05 ADJUSTMENT (ROUNDING)	0.05
Dell Financial Services, LLC.		
COMPUTER LEASES - 9-1-2020--11/30/2020 - FIR	Invoice Amount:	\$769.64
	Check Date:	08/25/2020

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

	101-336-978.500	Fire Dept.. Computer (Lease-Qtly)	299.32
	592-172-978.500	DPW	427.60
	592-172-978.500	DPW (rounding adjust)	42.72
RONNISH CONSTRUCTION GROUP		Invoice Amount:	\$17,985.00
REFUND OF PERMIT		Check Date:	08/25/2020
	101-371-965.000	CANCELED PERMIT	17,985.00
JEFFERY GREEN		Invoice Amount:	\$100.00
CANCLD DECK PERMIT		Check Date:	08/25/2020
	101-371-965.000	ALREADY ISSUED PERMIT ON POOL PERMIT	100.00
PLYMOUTH KIWANIS		Invoice Amount:	\$140.00
PAVILION RESERVATION REFUND - PERMIT 1745		Check Date:	08/25/2020
	101-290-964.000	REFUND FOR KIWANIS PER K.HEISE	140.00
PLYMOUTH FOOTBALL BOOSTERS		Invoice Amount:	\$175.00
PAVILION RESERVATION REFUND - PERMIT 1741		Check Date:	08/25/2020
	101-290-964.000-20	REFUND DUE TO COVID 19	175.00
JUDITH COURTNEY		Invoice Amount:	\$175.00
PAVILION RESERVATION REFUND - PERMIT 1744		Check Date:	08/25/2020
	101-290-964.000-20	REFUND DUE TO COVID 19	175.00
JULIE SZMATULA		Invoice Amount:	\$300.00
PAVILION RESERVATION REFUND - PERMIT 1755		Check Date:	08/25/2020
	101-290-964.000-20	REFUND DUE TO COVID 19	300.00
KRISTEN PALMER		Invoice Amount:	\$35.00
SHELTER RESERVATION REFUND - PERMIT 1747		Check Date:	08/25/2020
	101-290-964.000-20	REFUND DUE TO COVID 19	35.00
MARGARET BARTEL		Invoice Amount:	\$325.00
PAVILION RESERVATION REFUND - PERMIT 1744		Check Date:	08/25/2020
	101-290-964.000-20	REFUND DUE TO COVID 19	325.00
Total Amount to be Disbursed:			\$925,067.78

**Charter Township of Plymouth
AP Invoice Listing - Board Report**

Refunds Page 8 | 12/21/20

VENDOR INFORMATION**INVOICE INFORMATION****SPALDING DEDECKER ASSOCIATES, INC.**

BD Bond Refund

101-371-283.016

BE18-0042

Invoice Amount:**\$7,487.75****Check Date:****08/09/2020**

7,487.75

SPALDING DEDECKER ASSOCIATES, INC.

BD Bond Refund

101-371-283.016

BE18-0042

Invoice Amount:**\$2,946.25****Check Date:****08/09/2020**

2,946.25

SIMPLIFILE, LC

BD Bond Refund

101-371-283.011

BPZ19-0016

Invoice Amount:**\$24.00****Check Date:****08/09/2020**

24.00

SIMPLIFILE, LC

BD Bond Refund

101-371-283.016

BE18-0006

Invoice Amount:**\$120.00****Check Date:****08/09/2020**

120.00

JCS CONSTRUCTION SERVICES, LLC

BD Bond Refund

101-371-283.001

BP19-0056 - PB19-0997

Invoice Amount:**\$1,500.00****Check Date:****08/09/2020**

1,500.00

Total Amount to be Disbursed:**\$12,078.00**

Charter Township of Plymouth

AP Invoice Listing - Board Report

Weekly

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VENDOR INFORMATION**INVOICE INFORMATION**

AT & T		Invoice Amount:	\$1,862.28
AT&T - TELEPHONE ALLOCATION JULY 2020 - R0		Check Date:	08/12/2020
101-201-853.000	Information Services		127.35
101-209-853.000	Assessing		76.04
101-371-853.000	Building		211.97
101-336-853.000	Fire		334.61
101-305-853.000	Police		338.98
101-171-853.000	Supervisor		198.17
101-253-853.000	Treasurer		169.07
101-215-853.000	Clerk		98.75
101-371-853.500	Community Development		78.90
101-325-853.000	Dispatch		127.52
101-265-854.000	Water/Sewer (Util)		30.28
101-691-853.000	Park		23.70
592-172-853.000	Gen Expense Tel		46.94
COMCAST		Invoice Amount:	\$231.75
INTERNET - AUGUST 2020 -- ACCT 900913674		Check Date:	08/12/2020
101-691-921.000	Township Park		64.95
101-336-921.000	Fire		64.95
101-325-853.400	Telephone		101.85
CONSUMERS ENERGY		Invoice Amount:	\$1,216.33
MONTHLY CHGS - JULY 2020		Check Date:	08/12/2020
101-171-921.000	Supervisor		104.99
101-201-921.000	Info Services		56.18
101-209-921.000	Assessing		30.05
101-215-921.000	Clerk		91.24
101-253-921.000	Treasurer		38.11
101-305-921.000	Police		301.51
101-325-921.000	Dispatch		62.76
101-325-921.400	Lock Up		62.76
101-336-921.000	Fire Dept		209.12
101-371-921.000	Building		66.10
101-371-921.500	Comm Devel		37.03
101-691-921.000	Park		52.32
226-226-921.000	Utilities-Solid Waste		8.70
592-291-921.000	Power & Pumping-DPW		95.46
DTE ENERGY		Invoice Amount:	\$33.81
FS # 2 SERVICE- AUGUST 2020- 9200-013-7823-		Check Date:	08/12/2020
101-336-921.000	FS #2 ELECTRIC SERVICE AUGUST 2020		33.81
DTE ENERGY		Invoice Amount:	\$6,505.02
JULY 2020 - MUNICIPAL STREET LIGHTS - ACCT.		Check Date:	08/12/2020
101-446-920.000	JULY 2020 MUNICIPAL STREET LIGHTS		6,505.02
MICHIGAN CONFERENCE OF TEAMSTERS		Invoice Amount:	\$13,569.60
HEALTH INSURANCE -SEPTEMBER 2020 (DPW) (Check Date:	08/12/2020
592-291-714.000	BARTLETT, JAMES		1,696.20
592-291-714.000	KRUEGER, RANDY		1,696.20
592-291-714.000	MELOW, STEVEN		1,696.20
592-291-714.000	OVERAITIS, JOSEPH		1,696.20
592-291-714.000	SCHOLTEN, JAMES		1,696.20
592-291-714.000	THOMAS, JAMES		1,696.20
592-291-714.000	NELSON, DAVID		1,696.20
592-291-714.000	PUMPHREY, ZACHARY		1,696.20

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION****WESTERN TWNSPS UTILITIES AUTHORITY**

WTUA - JULY 2020

*592-441-742.000**Monthly Charges**592-441-743.000**YUCA IPP-IWC**592-443-937.000**Country Acres Pump Station**592-100-185.000**Capital Improvement Program***Invoice Amount:****\$125,714.27****Check Date:****08/12/2020***94,899.70**5,284.60**682.08**24,847.89***Total Amount to be Disbursed:****\$149,133.06**

Charter Township of Plymouth AP Invoice Listing - Board Report

P. Bonds Page: 8/12/20

VENDOR INFORMATION

INVOICE INFORMATION

35TH DISTRICT COURT
BOND RECEIPT 08-03-2020

702-100-087.000

BOND RECEIPT NUMBER 8169

Invoice Amount: \$300.00
Check Date: 08/10/2020
300.00

35TH DISTRICT COURT
BOND RECEIPT 08-07-2020

702-100-087.000

BOND RECEIPT NUMBER 8170

Invoice Amount: \$50.00
Check Date: 08/10/2020
50.00

Total Amount to be Disbursed: \$350.00

**Charter Township of Plymouth
AP Invoice Listing - Board Report***Refund* Page 8 / 120**VENDOR INFORMATION****INVOICE INFORMATION****MUTAFIS JR, NICK**

2020 Sum Tax Refund R-78-061-03-0112-000

703-000-202.000

ACCOUNTS PAYABLE

Invoice Amount:**\$2,092.20****Check Date:****08/02/2020**

2,092.20

NOFFZE, CHRISTOPHER - KAYLA

2020 Sum Tax Refund R-78-040-01-0006-000

703-000-202.000

ACCOUNTS PAYABLE

Invoice Amount:**\$85.51****Check Date:****08/02/2020**

85.51

Total Amount to be Disbursed:**\$2,177.71**

Charter Township of Plymouth

AP Invoice Listing - Board Report

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VENDOR INFORMATION

INVOICE INFORMATION

ALERUS FINANCIAL

MERS-457 PLAN - ALL EMPLOYEES 7-31-2020 PA

101-100-239.000

101-100-239.000

457 CONT. PRE-TAX

457 CONT. ROTH POST-TAX

Invoice Amount:

\$20,063.84

Check Date:

08/05/2020

19,675.43

388.41

ALERUS FINANCIAL

MERS - DC FT EMPLOYEES -- EMPLOYER CONTRI

101-171-714.010

101-201-714.010

101-215-714.010

101-253-714.010

101-265-714.010

101-305-714.010

101-305-714.030

101-325-714.010

101-336-714.010

101-336-714.020

101-371-714.010

226-226-714.010

588-588-714.010

592-172-714.010

592-291-714.000

592-291-714.040

101-262-714.000

101-100-231.000

101-100-231.000

SUPERVISOR'S OFFICE

IT DIRECTOR

CLERK'S OFFICE

TREASURER'S OFFICE

BUILDING MANAGER (HAACK)

PD DEPT. (TIDERINGTON, GORDON)

PD DEPT. - UNION

DISPATCH DEPT.

FIRE - JOWSEY

FIRE - UNION

BUILDING DEPT.

SOLID WASTE DEPT.

SENIOR TRANS

PUBLIC SERVICES

DPW - FELLRATH, HAMANN

DPW

ELECTIONS (TERRELL)

RODRIGUEZ (DISPATCH) LOAN

NELSON (DPW) LOAN

Invoice Amount:

\$23,315.24

Check Date:

08/05/2020

999.30

577.44

1,855.67

982.56

267.12

674.40

3,153.78

2,078.04

282.96

4,969.19

1,588.39

353.88

236.36

926.16

1,010.31

2,715.00

298.69

191.47

154.52

ALERUS FINANCIAL

MERS - DC FT EMPLOYEES -- EMPLOYEE CONTRI

101-100-231.000

101-100-231.000

MERS EMPLOYEE PRE TAX

MERS EMPLOYEE POST TAX

Invoice Amount:

\$6,961.71

Check Date:

08/05/2020

6,373.41

588.30

ALERUS FINANCIAL

MERS - TIDERINGTON OFF CYCLE REPORTING -

101-100-256.000

TIDERINGTON OFF CYCLE REPORTING

Invoice Amount:

\$1,462.47

Check Date:

08/05/2020

1,462.47

ALERUS FINANCIAL

MERS HCSP PLAN (SPREADSHEETS ATTACHED) -

101-336-714.000

588-588-714.000

101-171-714.000

101-215-714.000

101-253-714.000

101-305-714.000

101-325-714.000

592-291-714.000

592-172-714.000

101-371-714.000

226-226-714.000

IAFF

SENIOR TRANS

SUPERVISOR

CLERK

TREASURER

POLICE

DISPATCH

DPW

DPS

BUILDING

SOLID WASTE

Invoice Amount:

\$50,175.00

Check Date:

08/05/2020

13,575.00

975.00

975.00

2,775.00

975.00

13,500.00

6,825.00

4,875.00

2,925.00

1,800.00

975.00

A T & T

JUNE 2020 PAYMENT - ACCT. 734-453-4461-659-

101-336-853.000

101-265-853.000

101-691-853.000

592-291-853.000

Fire

Twp. Hall

Parks

DPW

Invoice Amount:

\$442.19

Check Date:

08/05/2020

150.33

35.38

35.38

221.10

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

A T & T		Invoice Amount:	\$2,001.33
AT&T - TELEPHONE/INTERENET ALLOCATION JU		Check Date:	08/05/2020
101-201-853.000	INFORMATION SERVICES		136.86
101-209-853.000	ASSESSING		81.72
101-371-853.000	BUILDING		227.79
101-336-853.000	FIRE		359.59
101-305-853.000	POLICE		364.29
101-171-853.000	SUPERVISOR		212.97
101-253-853.000	TREASURER		181.69
101-215-853.000	CLERK		106.12
101-371-853.500	COMMUNITY DEVELOPMENT		84.79
101-325-853.000	DISPATCH		137.04
101-265-854.000	WATER/SEWER (UTIL)		32.54
101-691-853.000	PARK		25.49
592-172-853.000	GEN EXPENSE TEL		50.44
A T & T		Invoice Amount:	\$832.87
AT&T - TELEPHONE ALLOCATION JULY 2020 - IP		Check Date:	08/05/2020
101-201-853.000	Information Services		56.95
101-209-853.000	Assessing		34.01
101-371-853.000	Building		94.80
101-336-853.000	Fire		149.65
101-305-853.000	Police		151.60
101-171-853.000	Supervisor		88.63
101-253-853.000	Treasurer		75.61
101-215-853.000	Clerk		44.16
101-371-853.500	Community Development		35.29
101-325-853.000	Dispatch		57.03
101-265-854.000	Water/Sewer (Util)		13.54
101-691-853.000	Park		10.61
592-172-853.000	Gen Expense Tel		20.99
BUONO, DUANE		Invoice Amount:	\$3,252.63
MECHANICAL INSP PAY JULY 2020		Check Date:	08/05/2020
101-371-818.000	JULY 2020 MECH PAY		3,252.63
COMCAST		Invoice Amount:	\$128.40
COMCAST HIGH SPEED INTERNET - AUGUST 202		Check Date:	08/05/2020
101-290-941.000	COMCAST HIGH SPEED INTERNET - AUGUST		128.40
COMCAST		Invoice Amount:	\$177.53
COMCAST HIGH SPEED INTERNET - TOWNSHIP P		Check Date:	08/05/2020
101-691-921.000	High Speed Internet - Township Park		177.53
FIDELITY SECURITY LIFE INSURANCE CO		Invoice Amount:	\$575.36
EYEMED - RETIREES JULY 2020 (SPREADSHEETS)		Check Date:	08/05/2020
101-290-714.500	GENERAL RETIREES		98.43
101-305-714.500	POLICE DEPT. RETIREES		130.11
101-325-714.500	DISPATCH RETIREE		10.81
101-336-714.500	FIRE DEPT. RETIREES		243.90
592-172-714.500	PUBLIC SERVICES RETIREES		5.69
592-291-714.000	PUBLIC WORKS RETIREES		70.55
101-371-714.500	BUILDING RETIREES		15.87
FIDELITY SECURITY LIFE INSURANCE CO		Invoice Amount:	\$565.12
EYEMED - RETIREES AUGUST 2020 (SPREADSHE		Check Date:	08/05/2020
101-290-714.500	GENERAL RETIREES		98.43

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

101-305-714.500	POLICE DEPT. RETIREES	130.11
101-325-714.500	DISPATCH RETIREE	10.81
101-336-714.500	FIRE DEPT. RETIREES	233.66
592-172-714.500	PUBLIC SERVICES RETIREES	5.69
592-291-714.000	PUBLIC WORKS RETIREES	70.55
101-371-714.500	BUILDING RETIREES	15.87

FIDELITY SECURITY LIFE INSURANCE CO**Invoice Amount: \$957.65**

EYEMED - CURRENT EMPLOYEES -JULY 2020 (2 S

Check Date: 08/05/2020

101-171-714.000	SUPERVISOR DEPT.	5.69
101-201-714.000	INFO SYSTEMS	15.87
101-215-714.000	CLERK DEPT.	11.38
226-226-714.000	SOLID WASTE (VISEL)	15.87
101-253-714.000	TREASURER DEPT.	26.68
101-265-714.000	TOWNSHIP HALL (HAACK)	10.81
101-305-714.000	POLICE DEPT.	349.69
101-325-714.000	DISPATCH	134.54
101-336-714.000	FIRE DEPT.	268.39
101-371-714.000	BUILDING DEPT.	48.30
588-588-714.000	SENIOR TRANS (BOYCE)	15.87
592-172-714.000	PUBLIC SERVICES	22.19
592-291-714.000	PUBLIC WORKS ADMIN.	21.56
101-262-714.000	ELECTIONS (TERRELL)	10.81

FIDELITY SECURITY LIFE INSURANCE CO**Invoice Amount: \$941.78**

EYEMED - CURRENT EMPLOYEES -AUGUST 2020

Check Date: 08/05/2020

101-171-714.000	SUPERVISOR DEPT.	5.69
101-201-714.000	INFO SYSTEMS	15.87
101-215-714.000	CLERK DEPT.	11.38
226-226-714.000	SOLID WASTE (VISEL)	15.87
101-253-714.000	TREASURER DEPT.	26.68
101-265-714.000	TOWNSHIP HALL (HAACK)	10.81
101-305-714.000	POLICE DEPT.	349.69
101-325-714.000	DISPATCH	118.67
101-336-714.000	FIRE DEPT.	268.39
101-371-714.000	BUILDING DEPT.	48.30
588-588-714.000	SENIOR TRANS (BOYCE)	15.87
592-172-714.000	PUBLIC SERVICES	22.19
592-291-714.000	PUBLIC WORKS ADMIN.	21.56
101-262-714.000	ELECTIONS (TERRELL)	10.81

HEILEMAN, JAMES**Invoice Amount: \$5,799.25**

JULY 2020 ELEC INSP PAY

Check Date: 08/05/2020

101-371-818.000	JULY 2020 PAY	5,799.25
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M E R S**Invoice Amount: \$137,701.56**

MERS - JULY 2020 EMPLOYEE AND EMPLOYER

Check Date: 08/05/2020

101-100-231.030	COAM - Employee Contrib.	4,412.11
101-100-231.030	POAM - Employee Cont.	13,906.70
101-100-231.020	FIRE - Employee Contrib.	15,465.65
101-100-231.050	DISPATCH - Employee Contrib	4,744.37
101-305-714.030	COAM - Employer Contrib	22,936.73
101-305-714.030	POAM - EMPLOYER CONTRIB	26,455.00
101-336-714.020	FIRE - Employer Contrib	41,720.00
101-325-714.050	DISPATCH - Employer Contrib	8,061.00

MUNSON, STEVE**Invoice Amount: \$1,406.75**

JULY 2020 PLUMBING INSPECTOR PAY.

Check Date: 08/05/2020

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

101-371-818.000		JULY 2020 PAY	1,406.75
PLYMOUTH POSTMASTER		Invoice Amount:	\$1,200.00
WATER BILL POSTAGE - PERMIT #218 AUGUST 2		Check Date:	08/05/2020
592-172-730.000	PERMIT #218 AUGUST 2020 POSTAGE		1,200.00
CHARTER TWSP OF PLYMOUTH		Invoice Amount:	\$9,564.53
PLYMOUTH TOWNSHIP - WATER/SEWER AUGUS		Check Date:	08/05/2020
101-171-921.000	Supervisor		38.66
101-201-921.000	Information Services		20.69
101-209-921.000	Assessors		11.07
101-215-921.000	Clerk		33.60
101-253-921.000	Treasurer		14.03
101-265-854.000	Building		814.48
101-305-921.000	Police		111.03
101-325-921.000	Communications/Dispatch		23.11
101-325-921.400	Lock Up		23.11
101-336-921.000	Fire		4,736.90
101-371-921.000	Building		24.34
101-371-921.500	Planning		13.63
101-691-921.000	Park		2,491.88
226-226-921.000	Solid Waste		3.20
592-172-921.000	Adm/Gen Expense		1,055.70
592-444-745.000	Power & Pumping		58.87
588-588-921.000	Friendship Station		51.99
592-291-935.000	DPW		38.24
UNUM LIFE INSURANCE CO. OF AMERICA		Invoice Amount:	\$5,915.35
UNUM PREMIUM STATEMENT - JULY 2020 (SPRE		Check Date:	08/05/2020
101-171-714.000	SUPERVISOR'S DEPT.		127.51
101-201-714.000	INFORMATION SYSTEMS		73.50
101-215-714.000	CLERK'S DEPT.		256.93
101-253-714.000	TREASURER'S DEPT.		132.41
101-265-714.000	TOWNSHIP HALL (HAACK)		41.27
101-305-714.000	POLICE DEPT.		1,848.51
101-325-714.000	DISPATCH DEPT.		742.46
101-336-714.000	FIRE DEPT.		1,633.92
101-371-714.000	BUILDING DEPT.		225.88
226-226-714.000	SOLID WASTE		51.02
588-588-714.000	SENIOR TRANS.		39.59
592-172-714.000	PUBLIC SERVICES		137.52
592-291-714.000	PUBLIC WORKS		557.77
101-262-714.000	ELECTIONS (TERRELL)		47.06
UNUM LIFE INSURANCE CO. OF AMERICA		Invoice Amount:	\$5,879.03
UNUM PREMIUM STATEMENT - AUGUST 2020 (S		Check Date:	08/05/2020
101-171-714.000	SUPERVISOR'S DEPT.		127.51
101-201-714.000	INFORMATION SYSTEMS		73.50
101-215-714.000	CLERK'S DEPT.		256.93
101-253-714.000	TREASURER'S DEPT.		132.41
101-265-714.000	TOWNSHIP HALL (HAACK)		41.27
101-305-714.000	POLICE DEPT.		1,853.48
101-325-714.000	DISPATCH DEPT.		701.17
101-336-714.000	FIRE DEPT.		1,633.92
101-371-714.000	BUILDING DEPT.		225.88
226-226-714.000	SOLID WASTE		51.02
588-588-714.000	SENIOR TRANS.		39.59
592-172-714.000	PUBLIC SERVICES		137.52

Charter Township of Plymouth **AP Invoice Listing - Board Report**

VENDOR INFORMATION**INVOICE INFORMATION**

592-291-714.000
 101-262-714.000

PUBLIC WORKS
 ELECTIONS (TERRELL)

557.77
 47.06

VERIZON WIRELESS

AUGUST 2020 - WIRELESS BILLING ACCT #2 MI

592-291-853.000
 101-201-853.000
 101-336-853.000
 101-691-853.000
 588-588-853.000
 101-325-853.000
 226-226-853.000
 805-805-970.005

DPW
 Info services wireless devices
 Fire wireless devices
 Park foreman wireless device iPad
 Friendship Station
 Dispatch
 Solid Waste - Sarah Visel
 Sidewalk Inspec. I-Pad

Invoice Amount:**\$1,262.57****Check Date:****08/05/2020**

741.86
 0.29
 200.05
 40.01
 84.30
 105.53
 52.52
 38.01

VERIZON WIRELESS

AUGUST 2020 WIRELESS BILLING ACCT #1 - 585

592-172-853.000
 101-201-853.000
 101-336-853.000
 101-691-853.000
 101-253-853.000
 101-305-853.000
 101-371-853.000

DPW wireless devices
 Info services wireless devices
 Fire wireless devices
 Park foreman wireless device
 Treasurer Wireless Service
 Police Dept. wireless service
 Building Dept. Wireless Services

Invoice Amount:**\$1,032.84****Check Date:****08/05/2020**

101.16
 61.72
 140.96
 51.11
 51.72
 384.82
 241.35

Total Amount to be Disbursed:**\$281,615.00**

Charter Township of Plymouth
AP Invoice Listing - Board Report

P. Bonds Page 81 of 20

VENDOR INFORMATION**35TH DISTRICT COURT**

BOND RECEIPT 07-24-2020

*702-100-087.000***INVOICE INFORMATION****Invoice Amount:****\$400.00****Check Date:****08/03/2020***BOND RECEIPT NUMBER 8168**400.00***Total Amount to be Disbursed:****\$400.00**

**Charter Township of Plymouth
AP Invoice Listing - Board Report**

Refunds Page 7/29/20

VENDOR INFORMATION**INVOICE INFORMATION**

Henkels & McCoy			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	07/27/2020
	<i>101-371-283.001</i>	<i>BP19-0028 - PB19-0557</i>		<i>1,500.00</i>
Lakeshore Contracting Services LLC			Invoice Amount:	\$3,000.00
BD Bond Refund			Check Date:	07/27/2020
	<i>101-371-283.003</i>	<i>BBD17-0031 - PB17-0660</i>		<i>3,000.00</i>
Lakeshore Contracting Services LLC			Invoice Amount:	\$15,000.00
BD Bond Refund			Check Date:	07/27/2020
	<i>101-371-283.010</i>	<i>BBD19-0018 - PB17-0660</i>		<i>15,000.00</i>
Ronnish Construction Group			Invoice Amount:	\$3,000.00
BD Bond Refund			Check Date:	07/27/2020
	<i>101-371-283.003</i>	<i>BP20-0006 - PB20-0006</i>		<i>3,000.00</i>
Total Amount to be Disbursed:				\$22,500.00

Charter Township of Plymouth

AP Invoice Listing - Board Report

Weekly 4/29/20

VENDOR INFORMATION

INVOICE INFORMATION

COMCAST			Invoice Amount:	\$168.35
INTERNET - JULY 2020	ACCT 8529 10 216 14		Check Date:	07/29/2020
	101-290-941.000	JULY 2020 INTERNET (GEN)		168.35
COMCAST			Invoice Amount:	\$178.78
INTERNET - JULY 2020 --	ACCT 8529 10 216 189		Check Date:	07/29/2020
	101-265-854.000	Senior Ctr Internet		168.05
	588-588-921.000	Senior Trans Internet		10.73
COMCAST			Invoice Amount:	\$168.40
INTERNET - JULY 2020	ACCT 8529 10 2		Check Date:	07/29/2020
	101-336-921.000	JULY 2020 FIRE INTERNET		168.40
COMCAST			Invoice Amount:	\$148.35
INTERNET PORT STREET - AUGUST 2020 --	ACC		Check Date:	07/29/2020
	592-291-805.000	Internet - Port Street		148.35
DTE ENERGY			Invoice Amount:	\$585.54
BASEBALL DIAMONDS JUNE 2020--	9100-157-687		Check Date:	07/29/2020
	101-691-921.000	Baseball Diamonds		585.54
DTE ENERGY			Invoice Amount:	\$15.44
DTE SERVICE MILLER PARK JUNE 2020 -	9100-05		Check Date:	07/29/2020
	101-691-921.000	MILLER PARK ELECTRIC JUNE 2020		15.44
HONKE, ANITA			Invoice Amount:	\$144.60
MEDICARE PART B - AUGUST 2020			Check Date:	07/29/2020
	101-336-714.000	MEDICARE PART B AUGUST 2020		144.60
KNUPP, LINDA			Invoice Amount:	\$144.60
MEDICARE PART B AUGUST 2020			Check Date:	07/29/2020
	101-336-714.500	MEDICARE PART B AUGUST 2020		144.60
MAAS, CARLAS			Invoice Amount:	\$188.00
MEDICARE PART B AUGUST 2020			Check Date:	07/29/2020
	101-336-714.000	MEDICARE PART B -AUGUST 2020		188.00
A T & T LONG DISTANCE			Invoice Amount:	\$1.65
LONG DISTANCE ALLOCATION JUNE 2020			Check Date:	07/29/2020
	101-201-853.000	-info services		0.10
	101-209-853.000	Assessing		0.07
	101-371-853.000	Building		0.19
	101-336-853.000	Fire		0.30
	101-171-853.000	Supervisor		0.18
	101-253-853.000	Treasurer		0.15
	101-215-853.000	Clerk		0.09
	101-371-853.500	Community Development (Planning)		0.07
	101-325-853.000	Dispatch		0.11
	101-265-854.000	Township Hall		0.03
	101-691-853.000	Park		0.02
	592-172-853.000	DPW		0.04
	101-305-853.000	Police		0.30
VERIZON WIRELESS			Invoice Amount:	\$89.15
VERIZON - CELL PHONES FOR PARK & FIRE (ACC			Check Date:	07/29/2020
	101-691-853.000	PARK CELL PHONE		40.01
	101-336-853.000	FIRE - (LIFEPAKS)		49.14

Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION**WAYNE COUNTY**6/2020 TRAFFIC SIGNAL ENERGY INVOICE # 10
101-446-920.000**INVOICE INFORMATION****Invoice Amount: \$203.55****Check Date: 07/29/2020**6/2020 TRAFFIC SIGNAL ENERGY # 1010206
203.55**Total Amount to be Disbursed: \$2,036.41**



CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: Request to Consider Approval for a Cluster Housing Option (CHO):
Margate Single Family Residential Development

Resolution #2020-08-25-75

PRESENTERS: Laura Haw, AICP, NCI, Township Planner, McKenna
Representatives from Robertson Brothers Homes (applicant)

BACKGROUND:

The applicant, Mr. Tim Loughlin, on behalf of Robertson Brothers Homes, proposes to construct a cluster housing residential option, known as Margate, at 9295 Canton Center Road. The subject property is approximately 10.58 gross acres in size and mostly consists of vacant land with mixed vegetation. 30 detached, single family homes are proposed for the neighborhood.

A Single Family Cluster Housing Option is a flexible development method that is permitted on parcels less than 40 acres in the Township, within select residential districts, that provide for open space and other community benefits, as opposed to conventional subdivision design. Cluster Housing Options are governed by Article 22: Single Family Cluster Housing of the Township Zoning Ordinance, No. 99.

The subject development site is zoned the R-1-S, Single Family Residential district, and is considered an eligible site for a Cluster Housing Option under the Township's Zoning Ordinance. Per the Zoning Ordinance, 32 residential units is the maximum number of homes per acre for the subject site.

The first step in the Cluster Housing Option process is for the Planning Commission to review the proposal, hold a public hearing, and make a recommendation to the Board of Trustees (i.e., approval, denial, or approval with conditions). The public hearing was held at the July 15, 2020 Planning Commission meeting where the following comments were made by the public:

- Barbara and John Miller, residents to the south, expressed their concerns about removal of the woods, possible wetlands, and marking of trees which are on their property.
- Another resident in the area had concerns about how drainage for the project would affect the drainage to his lot.

Please note, several meetings have been held by the applicant (independent of the Township) with adjacent property owners.

After review of the proposed development, the Planning Commission recommended approval of the Margate cluster housing residential subdivision, with conditions, to the Board of Trustees for consideration, based on the following findings of fact:

- The development is aligned with the spirit and intent of Article 22.
- The development is compatible with the Future Land Use Map of the Township's adopted Master Plan, which identifies the subject site as Residential Low Intermediate Density (with a maximum recommended density of 3.0 dwelling units per acre, which the proposed development is under).
- The development furthers the existing objectives and strategies of the Township's adopted Master Plan, including:
 - Encourage a variety of housing types and residential living environments to accommodate a range of ages and incomes.
 - Require lots in new single-family residential developments, with frontage along a major thoroughfare or collector road, to be arranged so that the back or side of the home will face the major thoroughfare or collector road. There shall be no direct vehicular access from the lots to the major thoroughfare or collector road
 - Encourage interconnections between neighborhoods to reduce vehicle trips on main roads, provided that the interconnections will not invite cut-through traffic.
 - Require sidewalks to be installed along the local streets within new single-family residential developments.
 - Require new residential developments to be fully improved with paved streets, provisions for all utilities, and street trees.
 - Reduce the potential for vehicular conflicts by keeping the number of curb cuts along major thoroughfares and collector roads to a minimum and encourage the use of shared access points.

ACTION REQUESTED:

Notwithstanding any other comments by the Board or public, it is recommended that the Board of Trustees consider and approve the Cluster Housing Option for application #2361, Margate residential development, as noted in the enclosed resolution.

PROPOSED MOTION:

I move to adopt Resolution #2020-08-25-75 authorizing approval of the Margate Cluster Housing Option, with conditions, as recommended by the Planning Commission.

Moved By _____ Seconded By _____

ROLL CALL:

___ Heise ___ Heitman ___ Vorva ___ Clinton ___ Curmi ___ Dempsey ___ Doroshewitz

Enclosure: Site Documents

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION TO APPROVE
MARGATE CLUSTER HOUSING OPTION (CHO)**

RESOLUTION #2020-08-25-75

At a regular meeting of the Charter Township of Plymouth Board of Trustees (the 'board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, Michigan on August 25, 2020, the following resolution was offered:

WHEREAS, the applicant of 9295 Canton Center Road (parcel IDs: R-78-056-99-0019-000, R-78-056-99-0018-002 and R-78-056-99-0007-000), Robertson Brothers Homes, has requested Cluster Housing Option approval for the proposed Margate subdivision, and,

WHEREAS, the Board of Trustees, per Zoning Ordinance No. 99, Article 22, has the ability to grant final approval for a Cluster Housing Option (CHO), and,

WHEREAS, the Planning Commission considered the development proposal at their July 15, 2020 meeting and held a public hearing, and,

WHEREAS, the Planning Commission, upon review of the proposed development, made the following findings of fact: the development is aligned with the spirit and intent of Article 22; the development is compatible with the Future Land Use Map of the Master Plan; and the development furthers the objectives and strategies of the Township's Master Plan, and,

WHEREAS, the Planning Commission recommended approval, with conditions (as detailed in the July 9, 2020 planning report and the July 13, 2020 engineering report), for the proposed development to the Board of Trustees on July 15, 2020, and,

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve Resolution #2020-08-25-75 authorizing Cluster Housing Option approval for the Margate residential subdivision, with the conditions recommended by the Planning Commission.

Motion By: _____ **Seconded By:** _____

Roll Call:

___Heise ___ Heitman ___ Vorva ___ Clinton ___ Curmi ___ Dempsey ___ Doroshewitz

MOTION CARRIED _____

MOTION DEFEATED _____



June 3, 2020

Plymouth Township
Planning Department

Re: Site Plan Submittal Project Narrative
Margate Single Family Cluster Housing Development
Vacant Canton Center Road Properties
Plymouth Township, MI

Robertson Brothers Homes is pleased to submit a Single Family Cluster Housing Site Plan application for vacant properties on Canton Center Road, south of Ann Arbor Road. The properties are owned by the Church of the Nazarene, which is located adjacent to the north of the proposed development along Ann Arbor Road. Robertson has been working with Township staff and the neighborhood to prepare a plan that will bring a high-quality option for homebuyers in the area. The Margate project proposes 30 new single family residential homes that will add a quality housing product that is in high demand in the area. Margate will cater to those that are looking to raise a family in the community and enjoy all that the Plymouth area has to offer, with immediate access to high ranking schools. The homes will range in size between 1,850 and 3,000 square feet, with an option for a plan that will feature a first-floor master bedroom design. All homes built in the development will be offered for-sale to prospective homebuyers, who will then have the opportunity to customize their finish options at Robertson's newly remodeled design gallery.

The development consists of portions of three parcels of land under contract with one common owner, totaling 10.58 gross acres. The community will be located along the west side of Canton Center Road on a currently vacant parcel of land zoned single family (R-1S). The home series is a Robertson product line that is currently being redesigned for this community. Per the design requirements of the Single Family Cluster Housing Ordinance, the architectural exterior design of the homes will have a variety of design features that will minimize repetition of design elements between neighboring structures and avoid design monotony within the neighborhood, and each plan and elevation



will meet or exceed the 40% masonry requirement found within Section 22-10.10. Note that the included rendered elevations are from existing communities and are currently in design to be upgraded to Plymouth Township standards.

The development will provide for the storm pond detention requirements of Plymouth Township and Wayne County. There will be an established homeowner's association that will be responsible for open space and pond maintenance, and the Master Deed and Bylaws will be provided to the Township for review prior to being recorded with Wayne County. The proposed use of the land will provide for a seamless transition from existing higher density residential to the north and east and slightly less density neighborhoods to the south and west. The overall density of 2.85 dwelling units per acre will be less than the maximum permitted for a Single Family Cluster Housing plan within the R1-S zoning district.

Separated onsite wetland pockets totaling less than 1 acre have been analyzed by the Atwell Group and provided with this submittal package. Their analysis shows that none of the wetlands meet the threshold to be regulated under the State's criteria.

A pedestrian connection will be provided from Pioneer Middle School located adjacent to the west of the property and will continue east through the development to Canton Center Road where Isbister Elementary School is located. It is understood from our conversations with neighbors during multiple neighborhood meetings that there is a considerable amount of school aged children that walk through the property currently, and this will provide for a safer paved conveyance for the public to utilize.

A Single Family Cluster Housing Option is proposed for the site. The purpose of the cluster option is intended to establish set criteria for a given property based on the unique characteristics of the land. Per the Plymouth Township Zoning Ordinance (Article XXII), *"The purpose of the Single Family Cluster Housing Option is to permit optional methods of development and arrangement of single family structures on parcels less than forty (40) acres gross area in the R-1-E, R-1-H, R-1-S, R-1 and R-2 single family residential districts, which provide for design alternatives compatible with existing and*



future adjacent single family subdivisions, and which meet one or more of the following characteristics:

1. The parcel contains natural assets such as large stands of trees, rolling topography, swale areas, flood, plains or wetlands which would be in the best interest of the community to preserve and would otherwise be substantially destroyed if developed under traditional subdivision requirements.

Though the site is treed, the vast majority have been identified as exempt low-quality trees such as buckthorn species, per the site assessment provided on the included tree survey. Efforts will be made to preserve as many perimeter trees as feasible dependent on grading and drainage requirements.

As mentioned above, the wetlands have been identified as low quality and are considered to be unregulated.

Further, it is evident that neighboring properties drain on to the site and have caused flooding in the past for adjacent properties. This condition will be resolved through the capture of this water and the storm detention pond that will be constructed with the development.

2. Because of the parcel's peculiar configuration, it would be difficult to develop under traditional subdivision requirements.

Due to the unique shape of the property, as reflected on the parallel plan many of the lots would not allow for a normal sized home footprint, and the layout would lead to a less efficient use of the land. The proposed layout has significantly more open space and a creative layout that features the well landscaped entryway and pond feature as one enters and travels into the community.

3. Because of the parcel's particular relationship to thoroughfare and/or collector roads and existing circulation patterns for abutting subdivisions, it would be difficult to develop under traditional subdivision requirements.



While this specific provision does not apply, it is worth noting that the development is designed to create an attractive entrance with homes set back from Canton Center Road, and there is no opportunity to connect internally through existing adjacent subdivisions.

4. Because of the parcel's particular relationship to a limited access highway, development under the cluster option would result in a more suitable living environment than could be achieved under strict adherence to traditional subdivision requirements."

Due to the fact that the site is not adjacent to a limited access highway, this specific provision does not apply.

Margate meets the intent of the Single Family Cluster Housing provisions as it allows for an efficient use of land and a creative land plan that blends the parcels into one cohesive plan, with a housing product that is in high demand in the area. Margate will provide innovative yet traditional design elements that enhance its building character. Robertson Brothers Homes intends to purchase the entirety of the property and will be the sole builder in the project.

Section 22.1 of the Plymouth Township Zoning Ordinance requires that all proposed cluster housing development reflect the following basic principles:

1. *The proposal is in conformity with the spirit and intent of the Cluster Housing Option as established in the purpose Section of this Article.*

The proposed cluster development meets the spirit and intent of the Cluster Housing Option in several ways. It is a logical transition from higher density neighborhoods to the north and will be complementary and additive to the current residential fabric of the community. Margate will be a high quality development with owner-occupied homes that are keeping in context with the surrounding neighborhoods. Home prices will meet or exceed those currently in the immediate vicinity.



2. *The vehicular circulation system planned for the proposed development will be in the best interest of the public health, safety and welfare in regards to the overall circulation of the community, egress/ingress to the site, vehicular turning movements related to street intersections and street gradient, site distance and potential hazards to the normal flow of traffic.*

In reviewing the proposed interior circulation system for the proposed project, the Planning Commission shall determine the necessity for public roads and the potential future extension of such roads to adjacent properties. All interior roads, both public and private, shall be constructed in compliance with existing construction standards as adopted by the Wayne County Department of Public Services for residential streets. The Planning Commission and/or Township Board may waive this requirement after review and recommendation by the Township Planner and Township Engineer, provided the proposed waiver will not materially impair the intent and purpose of this Ordinance or the public interest.

The proposed street layout and circulation have been preliminarily reviewed by the Township's engineering and fire safety staff and indications are that all required standards are being met. Though there are not opportunities to connect to existing adjacent developments, a stub road is proposed for future connection to the south of the project. Public roads are proposed for the development which will be constructed to Township and Wayne County standards.

The development is intended to be a high quality enclave single family development nestled between two existing neighborhoods while providing for future connection to the south.

3. *The proposed units, circulation, layout, parking facilities and any open space or recreation activity areas are designed and located in a manner that ensures the stability of existing or future conventional single family residential properties in the area.*



The site has been designed to minimize any significant impacts to adjacent property owners and allow for future connection for efficient traffic patterns. While the site is not large enough for significant recreation space, a feature of the site is the wide open detention pond at the terminus of the long landscaped entry road, providing a welcoming entrance for the community.

The design provides for appropriate buffers to the existing neighborhoods from both generous rear building setbacks and from the landscape storm detention pond area. Additionally, the site benefits from existing open space areas adjacent to the northwestern and western boundaries from the neighboring school and church properties.

4. *Proposed landscape plantings, fences, walls and/or open space areas are appropriate and of sufficient size, height and quantity to insure that the proposed development will not be objectionable to nearby existing or future conventional single family residential properties by reason of noise, fumes or flash of lights from automobiles, or exterior lighting; nor will it interfere with an adequate supply of light and air, increase the danger of fire or otherwise endanger the public safety.*

The project provides for an excess of landscape plantings and an inviting entrance feature off of Canton Center Road. The entry road allows for buffer plantings to the two homes adjacent to it along Canton Center Road. Additionally, the community will be screened to the north of the detention pond for safety and privacy of those homeowners, which was mentioned as being important during our neighborhood meetings. Street trees will be provided in front of the homes and screening trees are shown at the terminus of the stub roads in front of lots 18 and 22 in order to screen vehicular traffic from neighboring properties.

As mentioned previously, a pedestrian connection will be provided to allow for the public to connect from the western perimeter to the eastern perimeter of the community, which should be a welcomed amenity for the overall neighborhood.



Lastly, the northwestern portion of the site (located behind lots 22 through 30) will be dedicated back to the Church as open space and will be deed restriction for the sole use of the Church and its members through the Master Deed. This will enable the area to continue as recreational open space for perpetuity.

5. *The proposed development will not adversely impact the capability of public services and facilities in the area or the Township as a whole.*

The development will provide 30 new taxpaying homeowners to Plymouth Township, with expected school aged children to attend Plymouth Canton Schools. The plan has been presented to the Township fire and engineering staff during multiple pre-application meetings, and preliminary indications are that there will be no adverse impact to public services or facilities as a result of the development of the community.

The development seeks a Cluster Housing approval in order to provide for the most efficient and highest quality development for the property. As such, modifications from the underlying R-1S zoning category are shown below.

Schedule of Regulations and Modifications Compared to R-1S Margate			
	R-1S	Proposed SF Cluster Development	Deviations From R-1S
Max. Density	N/A	2.86 du/ac	N/A
Min. Lot Area	12,000 sf	6,660 sf	5,340
Min Lot Width	90'	53.25'	36.75'
Min. Building Setbacks			
Front Setback	30'	20' to front and 25' to garage	10' to front / 5' to garage



Side Min. Principal	10' / 10'	5' / 5'	5' / 5'
Rear Setback Principal	50'	35'	15'
Principal Building Height to Midpoint	2.5 stories/35 feet	2.5 stories/35 feet	In Compliance

There are several public benefits to the project overall, such as:

- Development of a cohesive and efficient neighborhood
- Meeting the intent of the Township's Master Plan
- Meeting the requirements and intent of the Single Family Cluster Housing
- Inclusion of sidewalks to provide for community connection
- New housing option for residents that are currently underserved
- Quality architecture and design that will complement and further the enhance the area

The outside consultants involved with the project are as follows:

Engineering Consultant: Brad Brickel, Nowak & Fraus Engineering Consultants
46777 Woodward Avenue, Pontiac, MI 48342
248-332-7931

Planning Consultant: Tad Krear, LDS
18161 W Thirteen Mile Rd, Suite B-4, Southfield, MI 48076
248-594-3220

Wetland Consultant: Don Berninger, Atwell Group
311 North Main, Ann Arbor, MI 48104
(734) 994-4000



Robertson Brothers Homes is pleased to present the Margate site plan for Single Family Cluster Housing consideration by the Township. We believe the development will ultimately become a point of pride for responsible development in a solid area and will provide for a housing need in the community.

Please let me know if any additional information is required at this time.

Thank you.

Respectfully,

A handwritten signature in blue ink, appearing to be 'Tim Loughrin', written over a light blue horizontal line.

Tim Loughrin | Director of Land Acquisition and Development
Robertson Brothers Homes
6905 Telegraph Rd, Suite 200, Bloomfield Hills, MI 48301
Direct Dial: 248.282.1428 | Mobile: 248.752.7402
tloughrin@robertsonhomes.com

OWNER / DEVELOPER

ROBERTSON BROTHERS HOMES
6905 Telegraph Road
Suite 200
Bloomfield Hills, MI 48301

CONTACT: Tim Loughrin
Tel. (248) 282-1428

ARCHITECT

TK DESIGN & ASSOCIATES, INC.
26030 Pontiac Trail
South Lyon, MI 48178

CONTACT: Todd Hallett
Tel. (248) 446-1980

CIVIL ENGINEER

NOWAK & FRAUS ENGINEERS
46777 Woodward Ave.
Pontiac, MI 48342-5032

CONTACT: Brad W. Brickel, P.E.
Tel. (248) 332-7931
Fax. (248) 332-8257

LANDSCAPE ARCHITECT

LAND DESIGN STUDIO
750 Forest Avenue
Suite 101
Birmingham, MI 48009

CONTACT: Eric James
Tel. (248) 594-3220

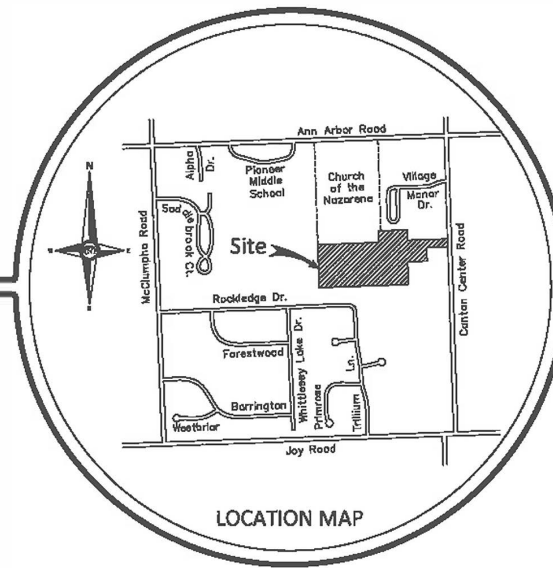
Plymouth Township, Wayne County, Michigan SITE PLAN DOCUMENTS

Prepared For Robertson Brothers Homes

PART OF THE SE 1/4 OF SECTION 33, T.1S., R.8E.,
PLYMOUTH TOWNSHIP,
WAYNE COUNTY, MICHIGAN

SHEET INDEX

SP0	Cover Sheet
SP1	Overall Boundary Survey
SP2	Boundary / Topographic / Tree Survey
SP3	Boundary / Topographic / Tree Survey
SP4	Survey Notes & Tree List
SP5	Tree List (Continued)
SP6	Overall Site Plan
SP7	Stringer Dimension Plan
SP8	Stringer Dimension Plan
SP9	Engineering Site/ Conceptual Development Plan
SP10	Engineering Site/ Conceptual Development Plan
SP11	Fire Truck Turning Plan
L-1	Overall Landscape Plan
L-2	Detention Pond Landscape Plan
L-3	Landscape Enlargement Plan
L-4	Tree Preservation Plan 1 of 2
L-5	Tree Preservation Plan 2 of 2
L-6	Tree Survey 1 of 2
L-7	Tree Survey 2 of 2
L-8	Landscape Details & Maintenance Notes
1	Parallel Plan



LOCATION MAP

LEGAL DESCRIPTION - PART OF PARCELS 1, 2, 3A3B, 3C & 3D

PART OF THE SOUTHEAST 1/4 OF SECTION 33, TOWN 1 SOUTH, RANGE 8 EAST, PLYMOUTH TOWNSHIP, WAYNE COUNTY, MICHIGAN BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 33; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST ALONG THE EAST LINE OF SAID SECTION 33, 891.59 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, 77.25 FEET; THENCE NORTH 89 DEGREES 38 MINUTES 28 SECONDS WEST, 213.00 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, 134.76 FEET; THENCE SOUTH 89 DEGREES 34 MINUTES 03 SECONDS WEST, 227.00 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, 220.00 FEET; THENCE SOUTH 89 DEGREES 54 MINUTES 03 SECONDS WEST ALONG IN PART THE NORTH LINE OF TRILLIUM WOODS CONDOMINIUM, WAYNE COUNTY CONDOMINIUM PLAN NO. 368 AS RECORDED IN THE MASTER DEED IN LIBER 27272, PAGE 617, WAYNE COUNTY RECORDS, 874.92 FEET TO THE NORTHWEST CORNER OF SAID TRILLIUM WOODS CONDOMINIUM; THENCE NORTH 00 DEGREES 05 MINUTES 27 SECONDS WEST ALONG THE NORTH-SOUTH 1/8 LINE OF SAID SECTION 33, 414.66 FEET; THENCE NORTH 89 DEGREES 59 MINUTES 48 SECONDS EAST, 595.58 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, 119.40 FEET; THENCE SOUTH 89 DEGREES 56 MINUTES 45 SECONDS EAST ALONG IN PART THE SOUTH LINE OF VILLAGE MANOR CONDOMINIUM, WAYNE COUNTY CONDOMINIUM PLAN NO. 910, AS RECORDED IN THE MASTER DEED IN LIBER 44564, PAGE 291, WAYNE COUNTY RECORDS, 284.24 FEET; THENCE SOUTH 00 DEGREES 05 MINUTES 27 SECONDS EAST, 99.81 FEET; THENCE SOUTH 89 DEGREES 58 MINUTES 28 SECONDS EAST, 435.61 FEET TO THE POINT OF BEGINNING.

CONTAINING A GROSS AREA OF 460,745.06 SQUARE FEET OR 10.58 ACRES OF LAND,
CONTAINING A NET AREA OF 457,423.30 SQUARE FEET OR 10.50 ACRES OF LAND TO THE FUTURE 43 FOOT RIGHT OF WAY LINE.

REVISIONS:
08-12-20 ISSUED FOR SITE PLAN REVIEW

Project Name

Margate - Single Family Condominium



NF
ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM





LEGEND

○ = Existing Trees To Retain

Required 20' Greenbelt

Proposed Community Monument Sign shall conform with the requirements of Article 25 of the Township Code of Ordinances and be approved under separate permit issued by the Planning Department. See Sheet L-3 for Sign Landscape Programming.



sheet title:

Overall Landscape Plan

project title:

Margate - Single Family Condominium

Plymouth Charter Township, Michigan

prepared for:

Robertson Brothers Homes
5905 Telegraph Rd. - Suite 200
Bloomfield Hills, MI 48301

Phone: 248.503.0666

project number:

10014

date: 05.26.2020

drawn by:

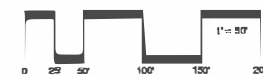
EMJ

checked by:

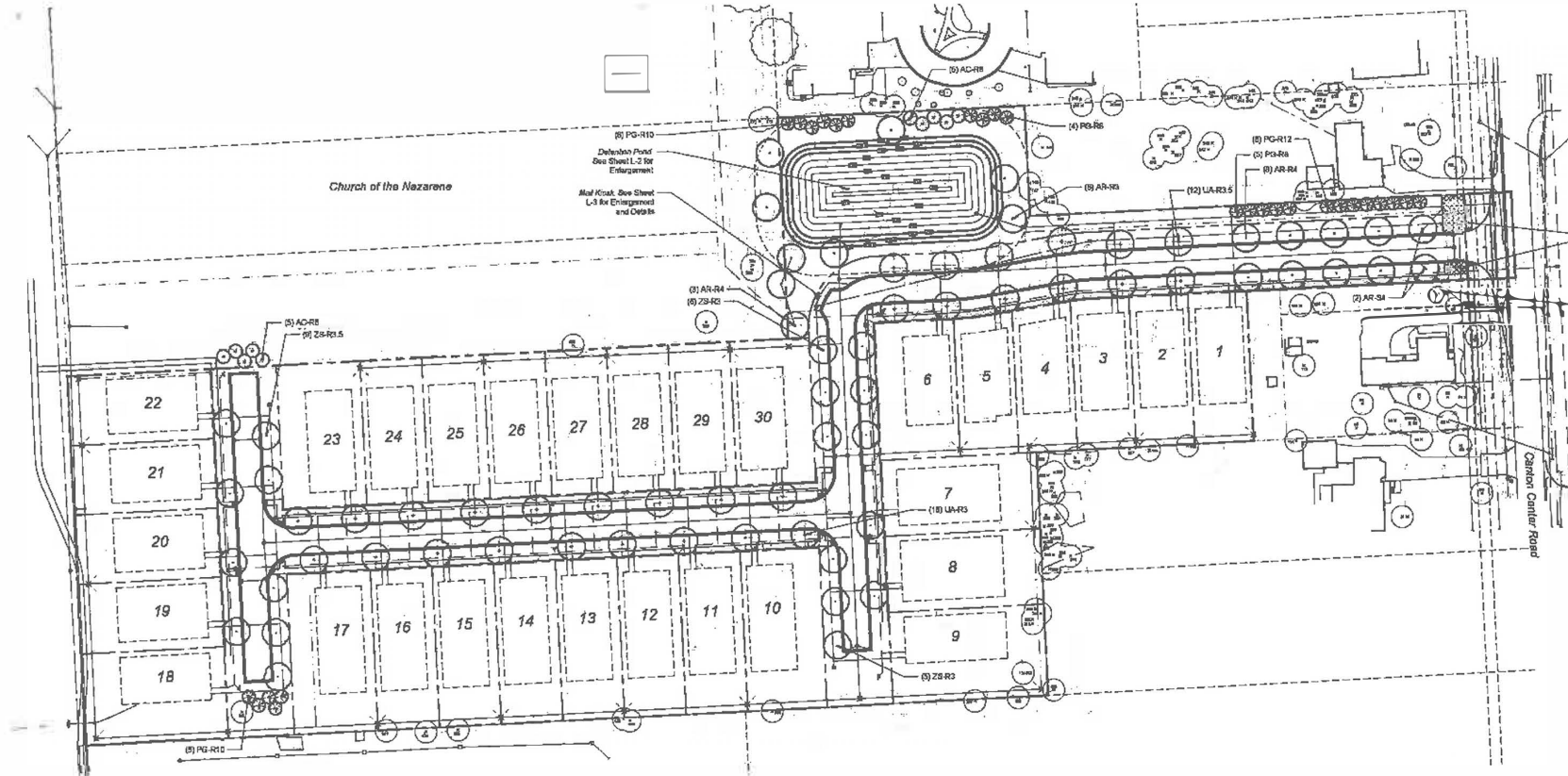
WTK

revisions:

08.12.2020 Per Engineering Revisions



sheet no.
L-1

**Landscape Summary**

Street Lawn Trees: Canton Center Road
Length of Frontage: 77.25 LF
Required: 1 Deciduous Tree / 40 LF & 20' width Greenbelt
Required: 2 Deciduous Trees & 20' width Greenbelt
Provided: 2 Deciduous Trees & 20' width Greenbelt

Tree Replacement Summary

Total Trees Surveyed: 487
Total Trees Offsite: 97
Total Onsite Trees: 238
Total Trees Retained: 12
Total Trees Replaced: 375 (Includes 1 Offsite Tree)
- Existing Trees: 325
- Street Trees include prohibited trees species (Bumelia, Quercus, and Poor Quality plant material)
Replacement Requirements:
Replaced: 1" caliper is replacement plant material per 4" DBH of the removed plant material
DBH Removed: 93.00"
Replaced: 238.25"
Provided: 350.00"

Plant Size Diversity Summary

LANDSCAPING MATERIALS	PERCENTAGE OF TOTAL	MINIMUM SIZE AT INSTALLATION
Deciduous Shade Trees	50%	3.0 - 3.5 inches caliper
	30%	3.5 - 4.0 inches caliper
	20%	4.0 inches caliper
Evergreen Trees	50%	8.0 feet high
	30%	10.0 feet high
	20%	12.0 feet high
Deciduous Ornamental Trees (Champ Form)	50%	6.0 feet high
	50%	8.0 feet high
Deciduous Ornamental Trees	50%	2.0 inches caliper
	30%	2.5 inches caliper
	20%	3.0 inches caliper
Deciduous Shrubs	50%	30.0 inches high
	50%	36.0 inches high
Upright Evergreen Shrub	50%	30.0 inches high
	50%	36.0 inches high
Spreading Evergreen Shrubs	50%	24.0 inch spread
	50%	30.0 inch spread

Deciduous Shade Trees
Total Proposed: 60
- 3.0" - 3.5" cal: 35 58%
- 3.5" - 4.0" cal: 21 35%
- 4.0" cal: 13 22%
Evergreen Trees
Total Proposed: 38
- 8.0' ht: 19 50%
- 10.0' ht: 11 30%
- 12.0' ht: 8 20%
Deciduous Ornamental Trees (Champ)
Total Proposed: 1
- 6.0' ht: 1 100%
- 8.0' ht: 0 0%

Deciduous Shrubs
Total Proposed: 64
- 30.0" ht: 32 50%
- 36.0" ht: 32 50%

Plant Schedule This Sheet

sp. no.	qty	botanical name	common name	size	spacing	cost
Canton Center Road Street Lawn Trees						
AR-54	2	Acer rubrum	Red Maple	4" cal.	per plant	\$45
Wasteland Replacement Trees						
AC-R8	10	Abies concolor	White Fir	8" ht.	per plant	\$45
AR-R3	6	Acer rubrum	Red Maple	3" cal.	per plant	\$45
AR-R4	11	Acer rubrum	Red Maple	4" cal.	per plant	\$45
PG-R8	9	Picea glauca	White Spruce	8" ht.	per plant	\$45
PG-R10	11	Picea glauca	White Spruce	10" ht.	per plant	\$45
PG-R12	8	Picea glauca	White Spruce	12" ht.	per plant	\$45
UN-R3	12	Thuja 'Morton'	Japanese Yew	3" cal.	per plant	\$45
UN-R3.5	12	Thuja 'Morton'	Japanese Yew	3.5" cal.	per plant	\$45
ZS-R3	11	Zelkova serrata	Japanese Zelkova	3" cal.	per plant	\$45
ZS-R3.5	9	Zelkova serrata	Japanese Zelkova	3.5" cal.	per plant	\$45



sheet title:

Illustrative Site Plan

project title:

Margate - Single Family Condominium

Plymouth Charter Township, Michigan

prepared for:

Robertson Brothers Homes
 6600 Telegraph Rd. - Suite 200
 Bloomfield Hills, MI 48301

Phone: 248.505.0886

job number:

13014

date:

08/02/2003

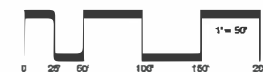
drawn by:

EMJ

checked by:

WTK

revision:



sheet no:
L-9



Raleigh Plan





The Charleston

Elevations



All information herein was accurate at the time of publication.
We reserve the right to make changes in price, specification, or materials, or to change or
discontinue models without notice or obligation





The Yorktown

Elevations



All information herein was accurate at the time of publication.
We reserve the right to make changes in price, specification, or materials, or to change or
discontinue models without notice or obligation





CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: Request to Consider Final Approval for the Ponds of Andover: Cluster Housing Option (CHO) Development and Agreement

Resolution #2020-08-25-76

PRESENTERS: Laura Haw, AICP, NCI, Township Planner, McKenna
Representatives from Trowbridge Land Development (applicant)

BACKGROUND:

The applicant, Mr. Anthony Randazzo, on behalf of Trowbridge Land Development, proposes to construct a cluster housing residential development, known as the Ponds of Andover, at 50700 N. Territorial Road. The subject property is approximately 8.5 acres in size and consists of a wooded lot, with a significant waterbody encompassing the northern portion of the parcel. Seven (7) detached, single-family homes are proposed on the site.

The initial Cluster Housing Option for this project was approved in May 2018 for a residential neighborhood with a maximum of seven (7) units. Since this time, the applicant has secured site Development Plan approval from the Planning Commission. The Commission's recommendation of approval was contingent on several outstanding items, which have since been addressed by the applicant.

The next step is for the applicant to secure final approval from the Board of Trustees for the Cluster Housing Agreement. After this stage, the applicant can begin working with the Building Department on permits.

Enclosed is the proposed Cluster Housing Agreement (contract) and the associated Development Plan which provides details on the site layout, architecture and style of homes, and the landscaping and amenities for the residents of the neighborhood.

The Township Attorney, Kevin Bennett, has reviewed the associated legal documents. Final approval of the Cluster Housing Development and Agreement by the Board of Trustees is contingent on Mr. Bennett's satisfaction that all legal documents are in compliance.

ACTION REQUESTED:

Notwithstanding any other comments by the Board or public, it is recommended that the Board of Trustees consider and approve the Cluster Housing Development and Agreement for application #2312-0818, The Ponds of Andover Cluster Housing Development, as noted in the enclosed resolution.

PROPOSED MOTION:

I move to adopt Resolution #2020-08-25-76 authorizing approval of The Ponds of Andover Cluster Housing Development and Agreement, as recommended by the Planning Commission, and contingent on final approval of all legal documents by the Township Attorney.

Moved By _____ Seconded By _____

ROLL CALL:

___ Heise ___ Heitman ___ Vorva ___ Clinton ___ Curmi ___ Dempsey ___ Doroshewitz

Enclosed: Site Documents and Legal Documents

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION TO APPROVE
THE PONDS OF ANDOVER:
CLUSTER HOUSING DEVELOPMENT AND AGREEMENT**

RESOLUTION #2020-08-25-76

At a regular meeting of the Charter Township of Plymouth Board of Trustees (the 'board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, Michigan on August 25, 2020, the following resolution was offered:

WHEREAS, the applicant of 50700 N. Territorial Road (parcel ID: R-78-042-99-0002-701), Trowbridge Land Development, has requested final approval for The Ponds of Andover Cluster Housing Residential Development (the 'development'), and,

WHEREAS, the Board of Trustees, per Zoning Ordinance No. 99, Article 22, has final approval on the Cluster Housing Agreement (contract), which sets forth the conditions upon which approval of the Cluster Housing Development is based, and,

WHEREAS, the Township Planning Commission recommended approval of the Development on June 17, 2020 to the Board of Trustees, based on compliance with Article 22 of the Zoning Ordinance No. 99, and,

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve Resolution #2020-08-25-76 authorizing The Ponds of Andover Cluster Housing Development and Agreement, contingent that all associated legal documents be addressed to the satisfaction of the Township Attorney.

Motion By:_____ **Seconded By:**_____

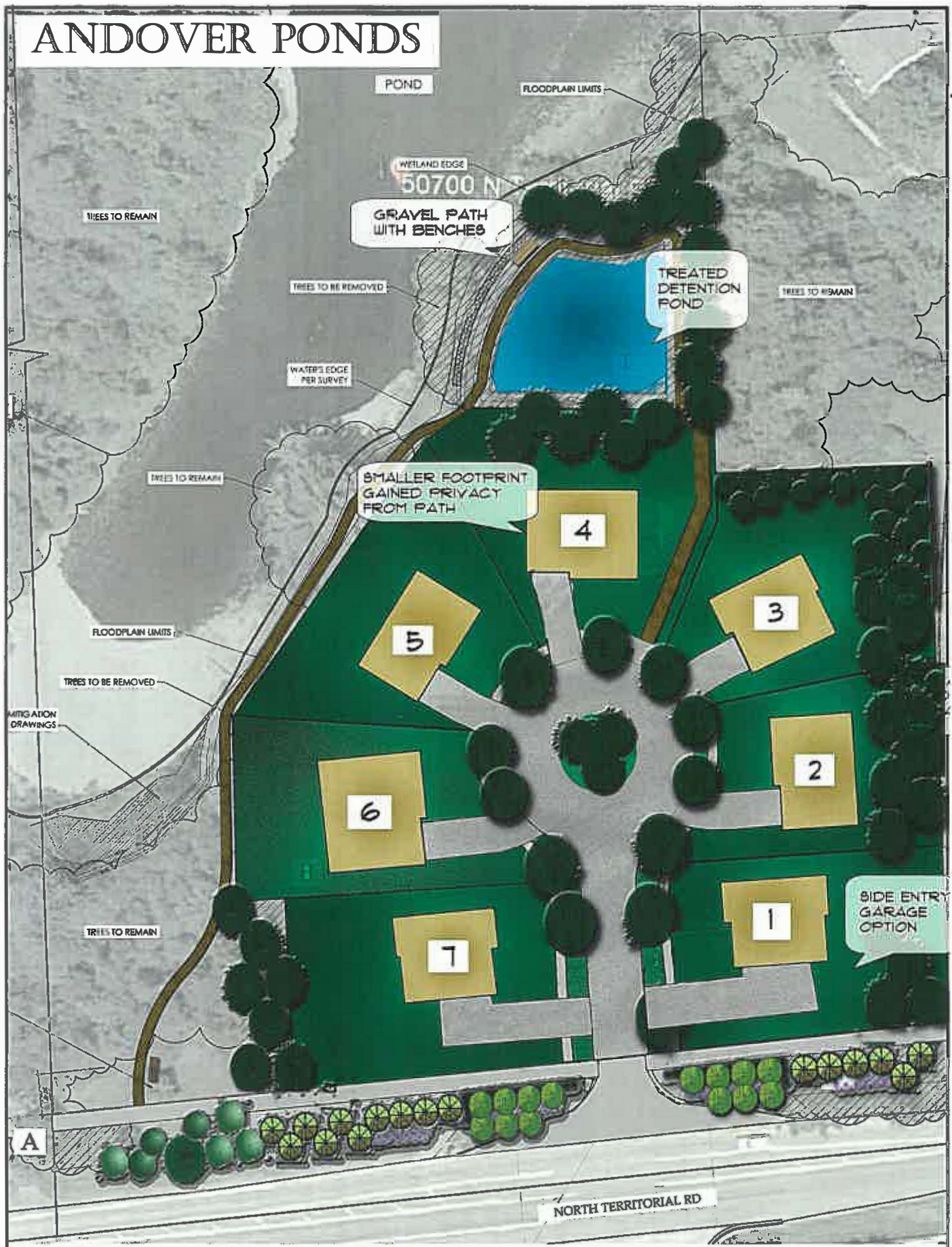
Roll Call:

___Heise___ Heitman___ Vorva___ Clinton___ Curmi___ Dempsey___ Doroshewitz

MOTION CARRIED _____

MOTION DEFEATED _____

ANDOVER PONDS



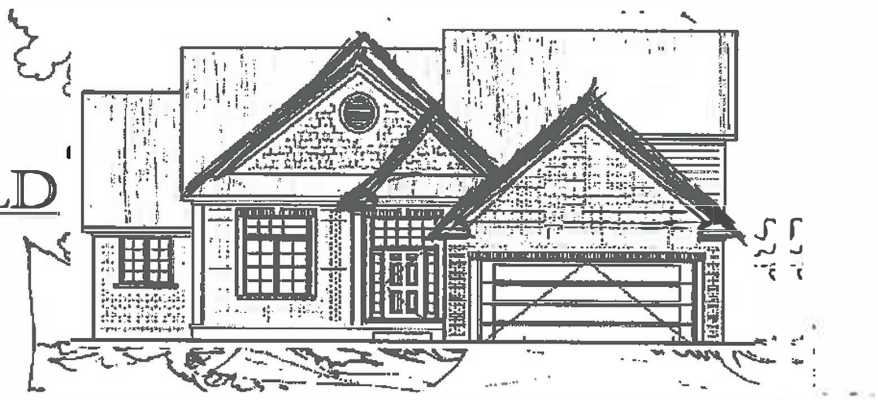
CAPECOD



GOLFVIEW



STANSFIELD



WINNICK



BROCHURES

**NOTE: PLANS HAVE BEEN REVISED PER PLANNING
COMMISSION RECOMMENDATIONS 6-17-2020**

CAPE COD - COLONIAL

GOLFVIEW - SPLIT-LEVEL

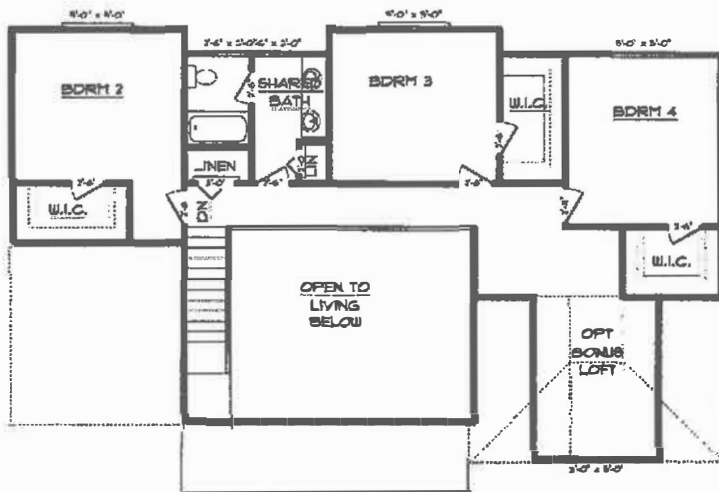
STANSFIELD – SLIT-LEVEL

WINNICK - COLONIAL

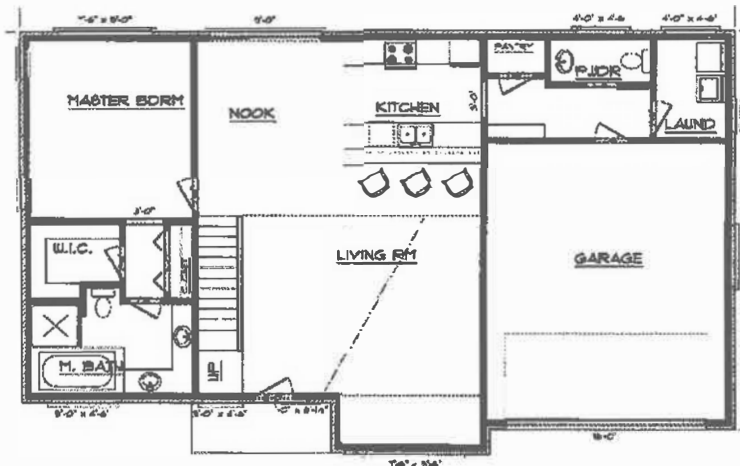
TROWBRIDGE HOMES

THE CAPE COD
2375 SQ.FT.

ANDOVER PONDS
COLONIAL



SECOND FLOOR PLAN (18'-0" CL'S)



FIRST FLOOR PLAN (18'-0" CL'S)

Although deemed accurate at the time of publication, prices, plans and specifications are subject to change without notice or obligation. Renderings are an artist's conception, may vary in construction. Floor plan dimensions are approximate.

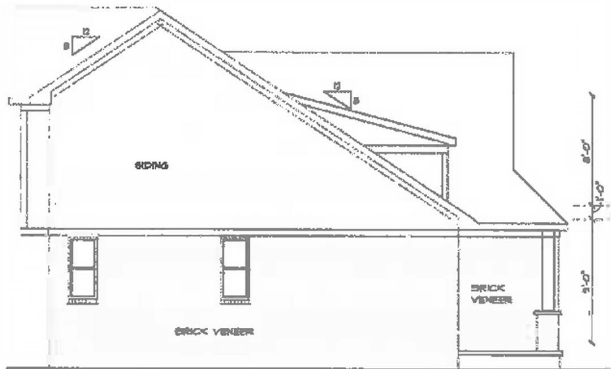
BRICK 75%
SIDING 25%



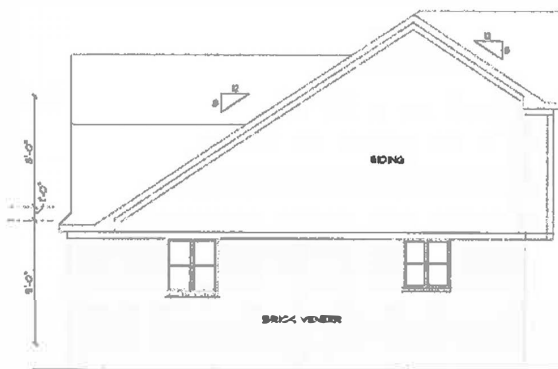
BRICK 55%
SIDING 45%



BRICK 60%
SIDING 40%



BRICK 60%
SIDING 40%

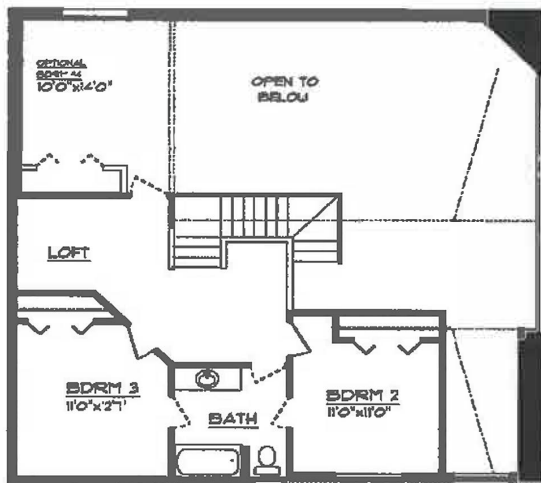


TROWBRIDGE HOMES

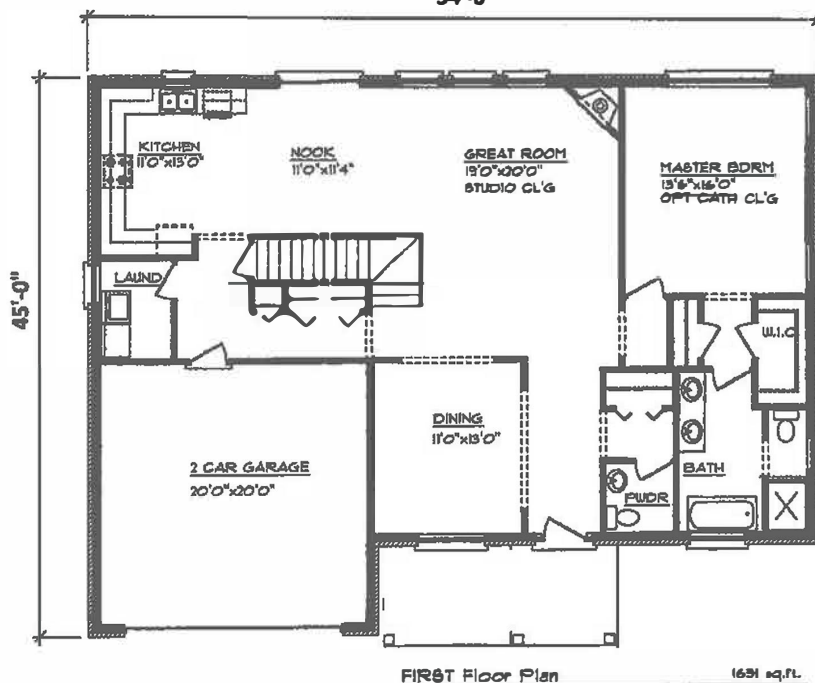
THE GOLFVIEW

2450 S/F

ANDOVER PONDS SPLIT LEVEL

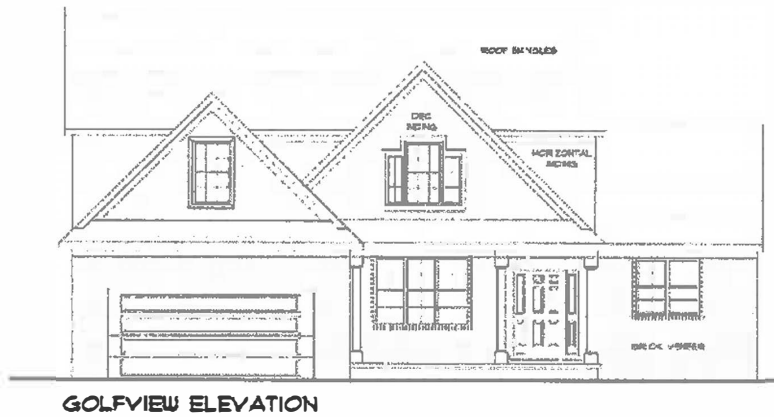


54'-0"

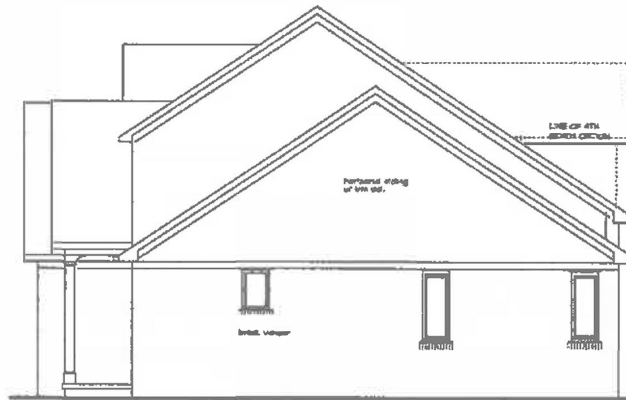


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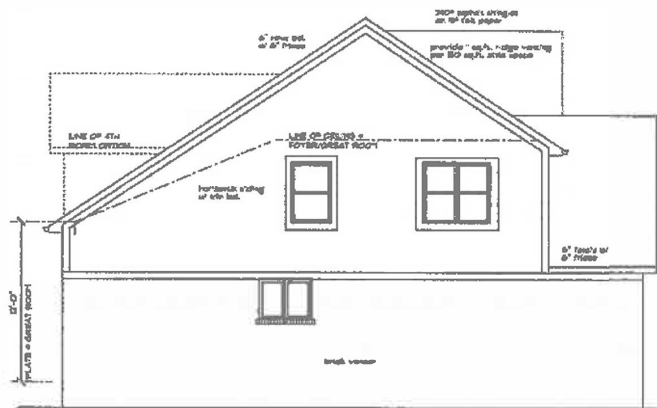
BRICK 65%
SIDING 35%



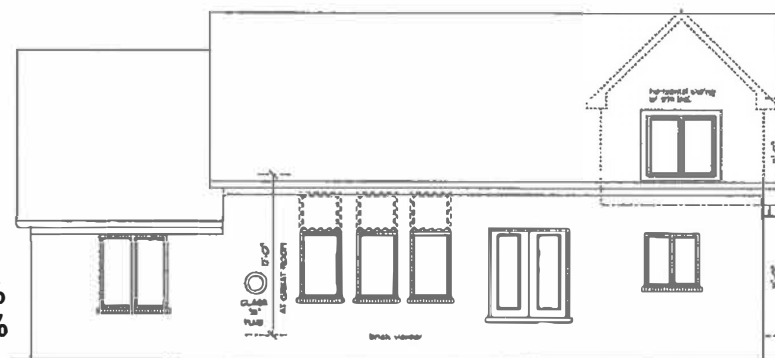
BRICK 60%
SIDING 40%



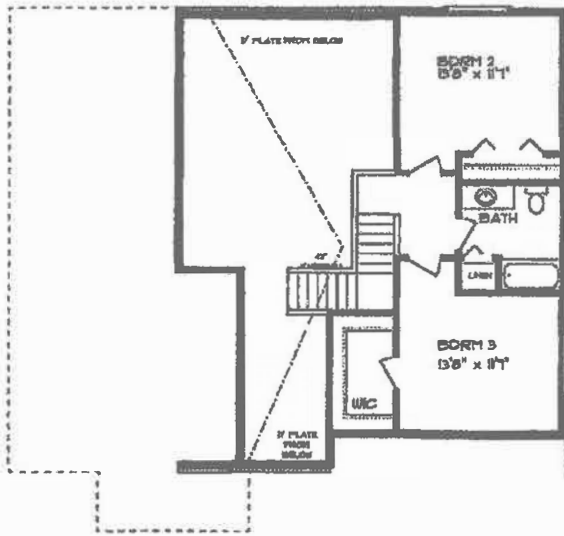
BRICK 55%
SIDING 45%



BRICK 90%
SIDING 10%

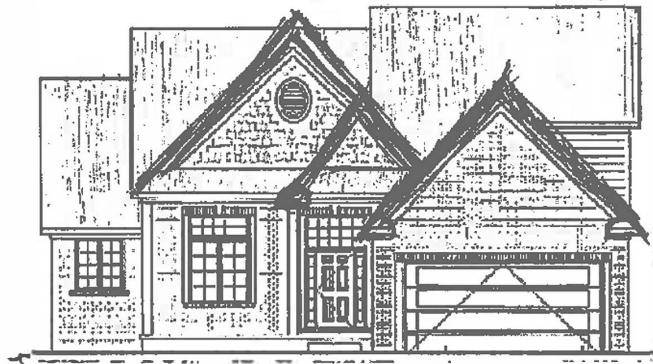


ANDOVER PONDS SPLIT LEVEL

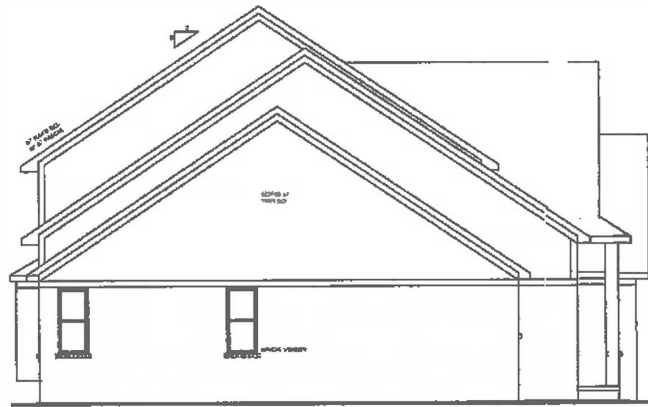
[illegible]

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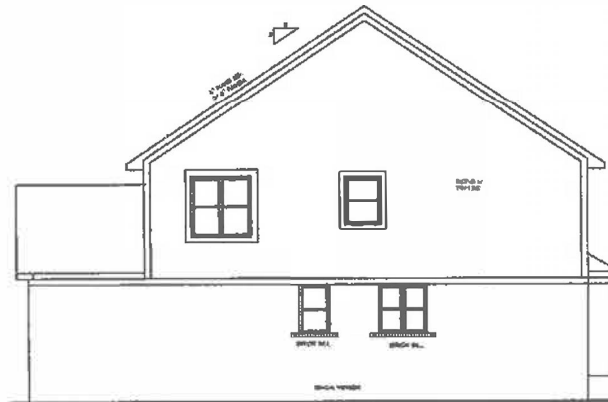
BRICK 90%
SIDING 10%



BRICK 55%
SIDING 45%



BRICK 55%
SIDING 45%



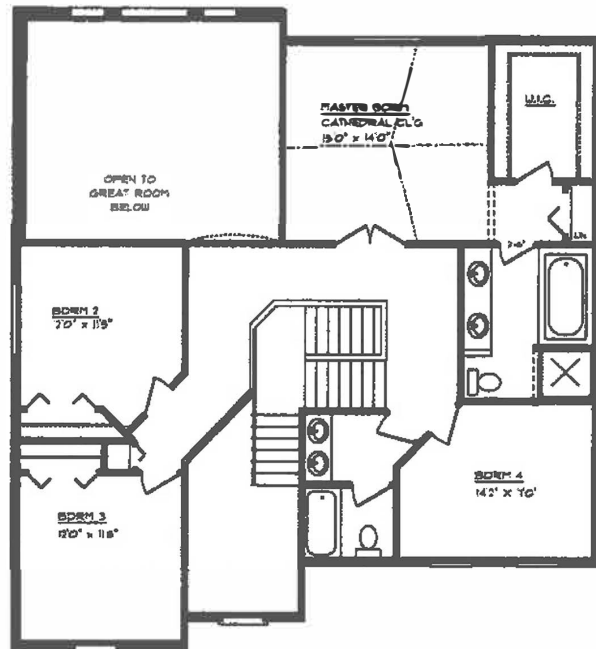
BRICK 75%
SIDING 25%



TROWBRIDGE HOMES

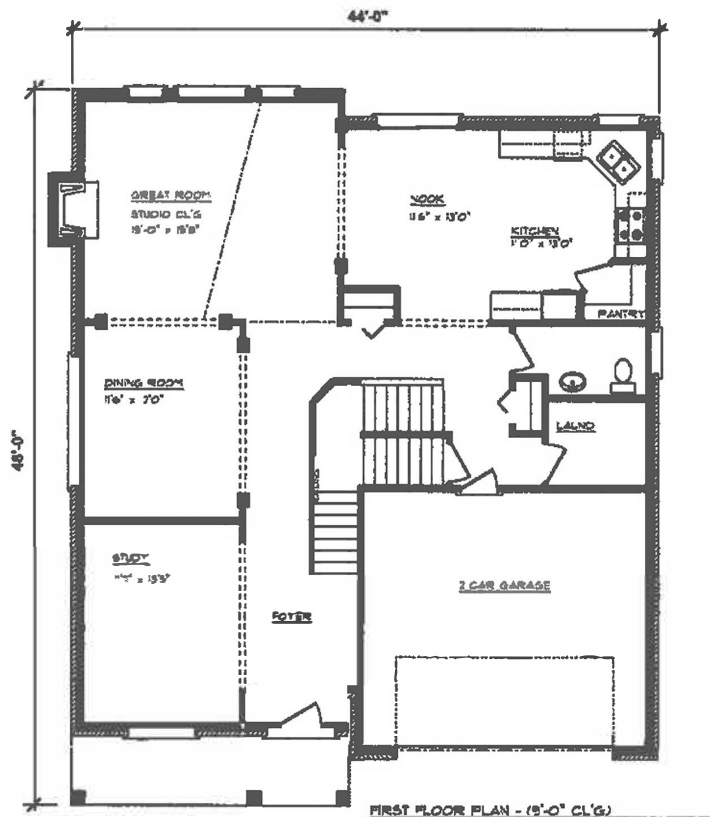
THE WINNICK

2700 SQ.FT.



SECOND FLOOR PLAN - (8'-0" C/L'S)

ANDOVER PONDS COLONIAL



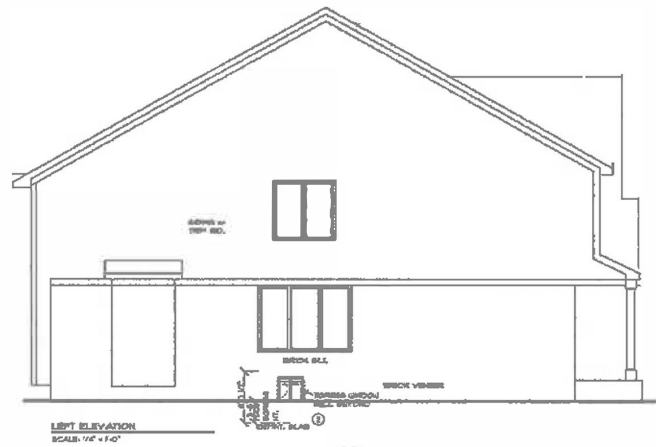
FIRST FLOOR PLAN - (8'-0" C/L'S)

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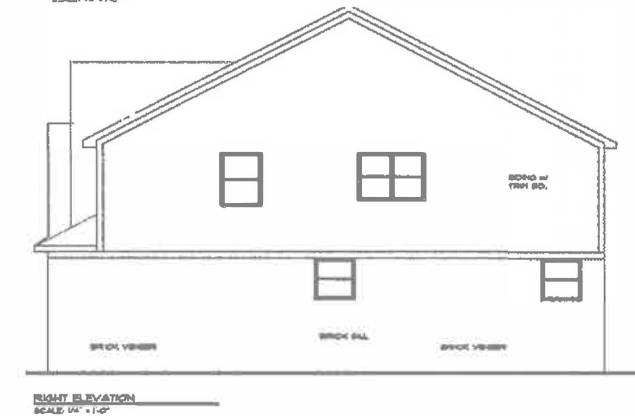
BRICK 65%
SIDING 35%



BRICK 55%
SIDING 45%



BRICK 55%
SIDING 45%



BRICK 40%
SIDING 60%



SPECIFICATIONS

**NOTE: SPECIFICATIONS HAVE BEEN REVISED PER
PLANNING COMMISSION RECOMMENDATIONS 6-17-2020**

MATERIALS BOARD

ENTRY SIGNAGE

RETAINING WALL/RAILING

BENCHES

MAILBOXES

NO PARKING SIGNS

ANDOVER PONDS- MATERIALS

SHINGLES - OC TRU DEFINITION

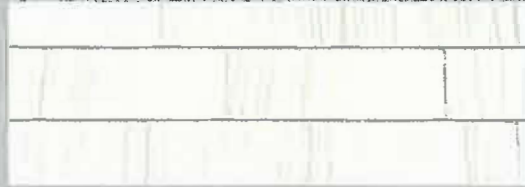
SAND DUNE



PACIFIC WAVE



DECORATIVE SIDING MASONITE CEDAR SHAKE PAINTED TO MATCH SIDING

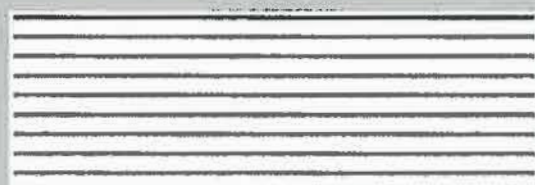


4" HORIZONTAL SIDING

SAND



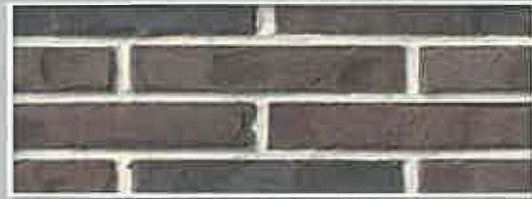
WHITE



BRICK - MERIDIAN MICHIGAN COLLECTION MEADOWBROOK



GRAND HAVEN



TAWAS



COLONY BAY

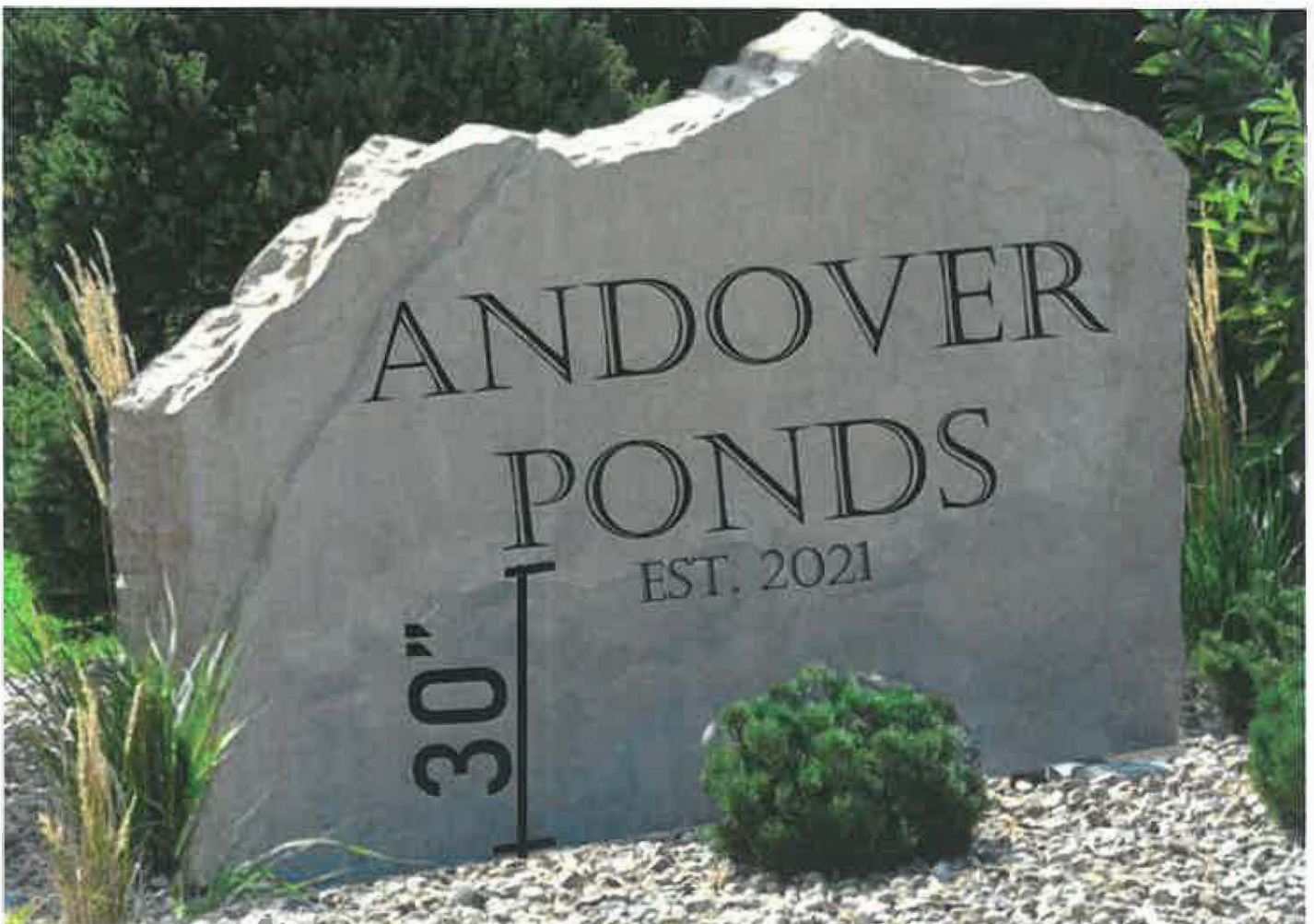


MATERIAL MAY BE SUBSTITUTED FOR SIMILAR/EQUAL TOO

MONUMENT SIGN

ENTRY SIGN ILLUMINATED PER CITY ORDINANCE

- LOCATION OF BOULDER MONUMENT SIGN NOTED ON PLANS
- BOTTOM OF LETTERING @ 30" ABOVE GRADE
- ILLUMINATION SPECIFICATIONS ADDED



SIGN ILLUMINATION

SUSTAINABLE LIGHTING

OUTDOOR SOLAR SIGN & SAFETY LIGHTING ARE USED IN CITIES AND MUNICIPALITIES EVERYWHERE.

THE BENEFITS OF SOLAR SIGN LIGHTING:

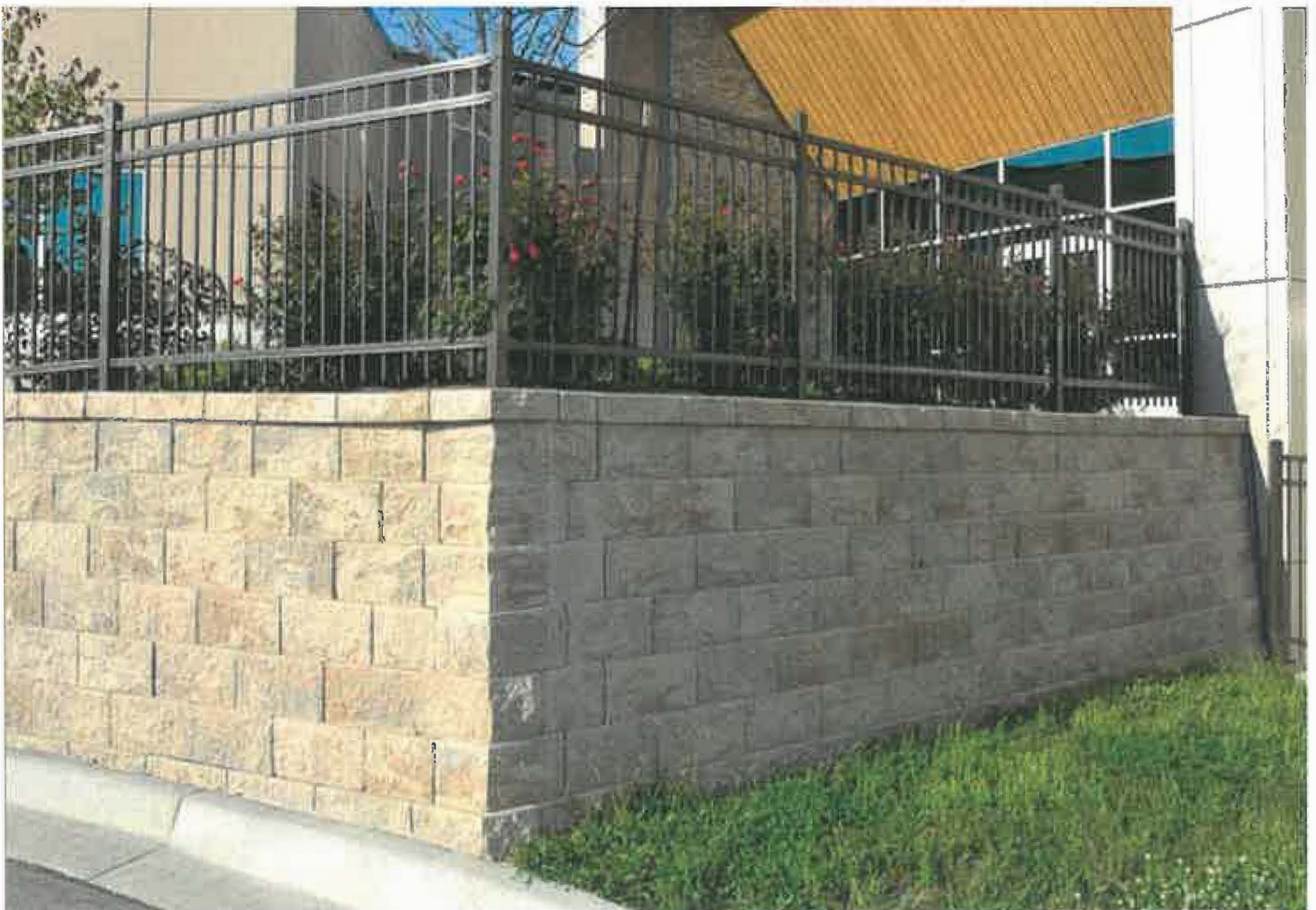
- Eliminate the costs & hassle of installing meter for sign and flood lighting
- LED lighting is brighter, has a longer lifespan and uses less power than comparable incandescent and halogen lighting



RETAINING WALL & RAILING

INTERLOCKING STONE WALL

WEATHERPROOF ALUMINUM RAILING



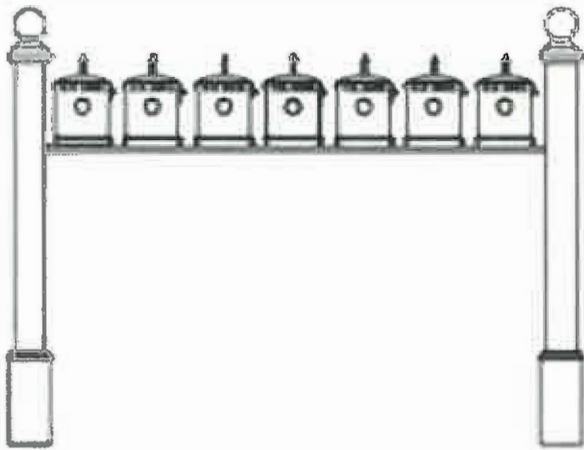
BENCHES

WEATHERPROOF MATERIALS

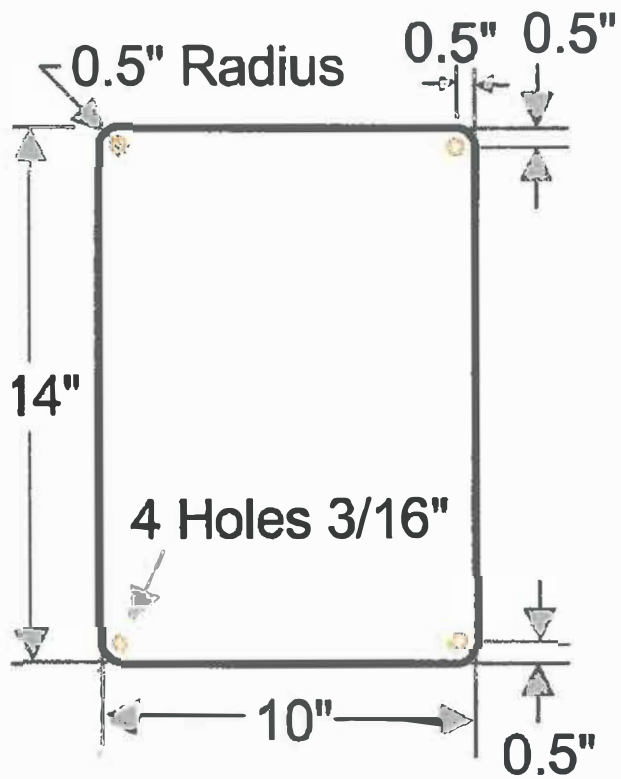
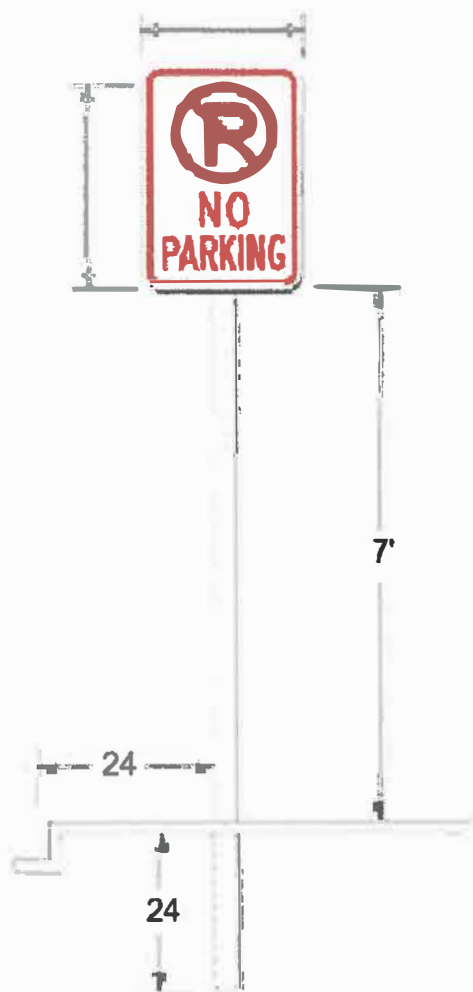


MAILBOXES

PERMANENT WEATHERPROOF MAILBOX CLUSTER



NO PARKING SIGNAGE



SITE PLANS FOR THE PONDS

TOWNSHIP OF PLYMOUTH, WAYNE COUNTY, MICHIGAN

SITE PARKING:

EACH HOME CONTAINS:
AT LEAST 4 GARAGE SPACES
AT LEAST 4 SPACES IN DRIVE
MINIMUM SPACES/HOME = 4 SERVICES
ADDITIONAL MULTI-SPACE USED IN/AROUND 6 SERVICES
TOTAL OVERALL SPACES = 48 SPACES FOR 7 UNITS

PRESERVATION OF SITE FEATURES:

THE SUBJECT SITE CONTAINS 9.50 ACRES OF LAND - THE TOTAL AREA OF DISRUPTION IS 11,000 SQ. FT. OR 0.25 ACRES OF LAND. DEVELOPING THE SITE AS A CLUSTER ALLOWS FOR PRESERVATION OF 6.00 ACRES OF WETLAND AND TREES PAIR SPACE AREA. SEE THE TREE PRESERVATION PLAN FOR THE ON-SITE TREES TO REMAIN DUE TO THE PROPOSED CLUSTER DEVELOPMENT.

SITE INFORMATION:

EXISTING PROPERTY ZONED: R-1-S
PROPOSED PROPERTY USE: OPEN SPACE/RESIDENTIAL DEVELOPMENT
PROPERTY TAX ID: 07-00-00-00-00-00
SITE DATA:
GROSS SITE AREA = 9.50 ACRES
NET SITE AREA = 1.45 ACRES
ALLOWED DENSITY FOR R-1-S = 12.000 UNITS/LOT REQUIRED
7.1075 PROPOSED < 7.1075 MAX DENSITY
UNDEVELOPED (PLANT) = 31,000 SF OR 0.71 A

BENCHMARK

1. MARK IN UTILITY POLE NEAR THE NORTH
CORNERS OF WAY AT PARCEL NO. 1
ELEV. 840.1 N.A.S. IN

SHEET INDEX

S-1 GENERAL & CONCEPTUAL
S-2 GRADING AND UTILITY PLAN
S-3 18x30 GROUNDWATER MONITORING TOPOGRAPHY
L-1 18x30 VMA VERT VERGE LANDSCAPE
L-2 18x30 VMA VERT VERGE LANDSCAPE
L-3 18x30 VMA VERT VERGE LANDSCAPE
L-4 18x30 VMA VERT VERGE LANDSCAPE

PROJECT NARRATIVE:

THE PROPOSED PROJECT IS A SMALL, UPGRADE OPEN SPACE SINGLE FAMILY HOME DEVELOPMENT CONTAINING 7 SINGLE FAMILY HOMESITES. THE DEVELOPMENT IS SURROUNDED BY WETLAND AND OPEN WATER WETLANDS. THE PROPERTY DIRECTLY EAST IS VARIANT PARCELS ZONED RESIDENTIAL. THE PROPERTY DIRECTLY NORTH IS ZONED RESIDENTIAL. THE PROPERTY DIRECTLY EAST IS ZONED AS SUBJECT PROPERTY AS R-1-S SINGLE FAMILY RESIDENTIAL AND DEVELOPED AS SUCH. FINALLY THE PROPERTY DIRECTLY SOUTH IS ALSO SINGLE FAMILY HOME ZONED R-1-S AND DEVELOPED AS SUCH.

STANDARD R-1-S DIMENSIONAL STANDARDS MODIFICATION REQUEST:

	REQUIRED	PROPOSED	REMARKS
FRONT SETBACK	25'	25'	0'
REAR SETBACK	25'	25'	0'

OPEN SPACE SETBACK MODIFICATION REQUEST:

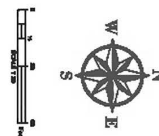
	REQUIRED	PROPOSED	REMARKS
FRONT SETBACK	25'	25'	0'
REAR SETBACK	25'	25'	0'

LOT TABLE:

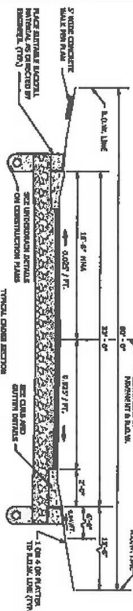
LOT	PROPOSED LOT AREA	REQUIRED LOT AREA	DIFFERENCE	REQUIRED OPEN SPACE	PROPOSED OPEN SPACE	DIFFERENCE	NOTES:
1	11,795 SF	14,000 SF	(2,205 SF)	(1,795 SF)	(1,795 SF)	0.00	"DOUBLE FRONT" - 30' FROM MAJOR ROAD
2	6,563 SF	10,000 SF	(3,437 SF)	(1,795 SF)	(1,795 SF)	0.00	"DOUBLE FRONT" - 30' FROM MAJOR ROAD
3	12,100 SF	10,000 SF	(2,100 SF)	(1,795 SF)	(1,795 SF)	0.00	"DOUBLE FRONT" - 30' FROM MAJOR ROAD
4	12,100 SF	10,000 SF	(2,100 SF)	(1,795 SF)	(1,795 SF)	0.00	"DOUBLE FRONT" - 30' FROM MAJOR ROAD
5	12,100 SF	10,000 SF	(2,100 SF)	(1,795 SF)	(1,795 SF)	0.00	"DOUBLE FRONT" - 30' FROM MAJOR ROAD
6	12,100 SF	10,000 SF	(2,100 SF)	(1,795 SF)	(1,795 SF)	0.00	"DOUBLE FRONT" - 30' FROM MAJOR ROAD
7	12,100 SF	10,000 SF	(2,100 SF)	(1,795 SF)	(1,795 SF)	0.00	"DOUBLE FRONT" - 30' FROM MAJOR ROAD

NO REQUIRED OPEN SPACE FOR LOT 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 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1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 18

THE UNIVERSITY OF CHICAGO



OPEN SPACE

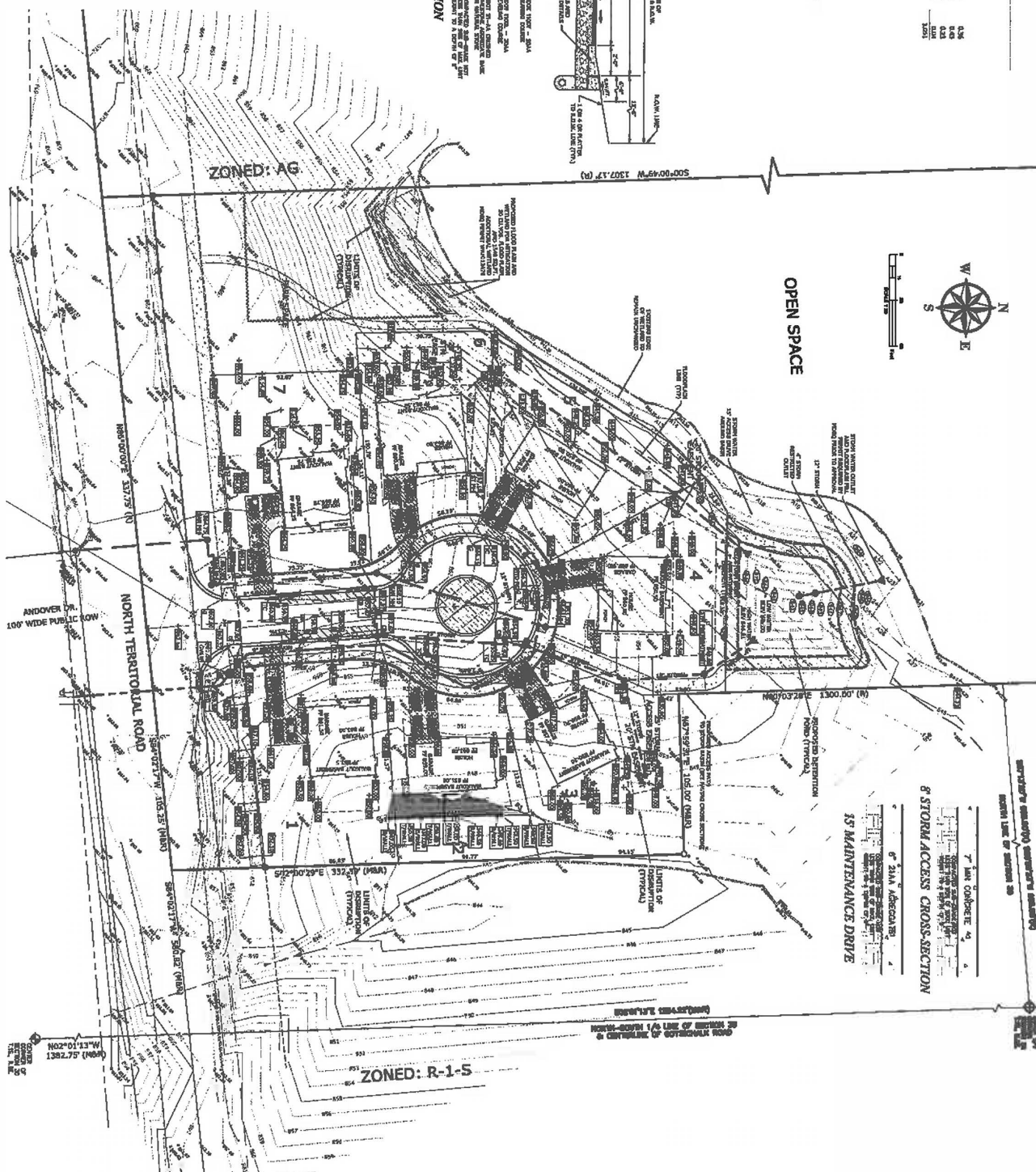


REV	DATE	DESCRIPTION	AMOUNT
2005	12/31	2005	2005
2006	1/1	2006	2006
2007	1/1	2007	2007
2008	1/1	2008	2008
2009	1/1	2009	2009

PAVEMENT CROSS-SECTION



CROSS SECTION A-A
SCALE: HORIZ 1"=10'



8 STORM ACCESS CROSS-SECTION

35 MAINTENANCE DRIVE

1000' SOUTH 1/4 LINE OF SECTION 3

ZONED: R-1-5

THE PONDS GRADING AND UTILITY PLAN

**THE PONDS PLYMOUTH
NORTH TERRITORIAL TOWNSHIP OF PLYMOUTH, MICHIGAN**



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82

10

BENCHMARK:
SITE DESCRIPTION:
NAIL IN UTILITY POLE NEAR THE NORTH
RIGHT-OF-WAY LINE OF PARCEL NO. 1.
ELEVATION: 664.04 N.A.V.D. 95

1. THERE ARE NO EXISTING EASEMENTS PER VANADIAN TITLE INSURANCE AGENCY COMMITMENT NO. 47544 REV 1, DATED 1-18-2013.
2. A TREE SURVEY WAS NOT PERFORMED AS PART OF THIS SURVEY.
3. GROUND WAS SNOW COVERED AT TIME OF SURVEY.

(PER COMMITMENT POLICY NO. 47544 REV 1)

[illegible]

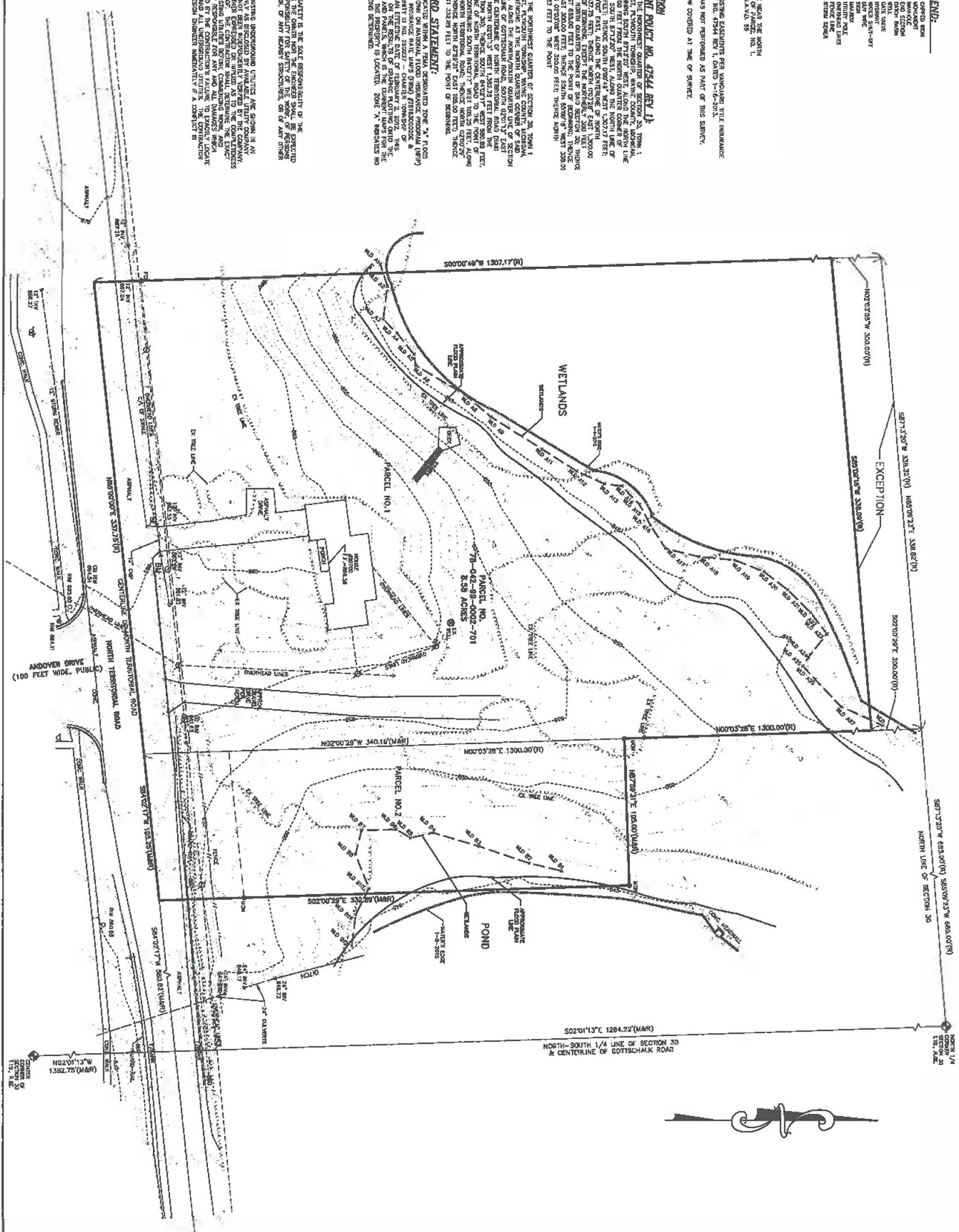
FLOOD HAZARD STATEMENT:

THE PROPERTY IS LOCATED WITHIN A FIRM DESIGNATED ZONE "A" FLOOD

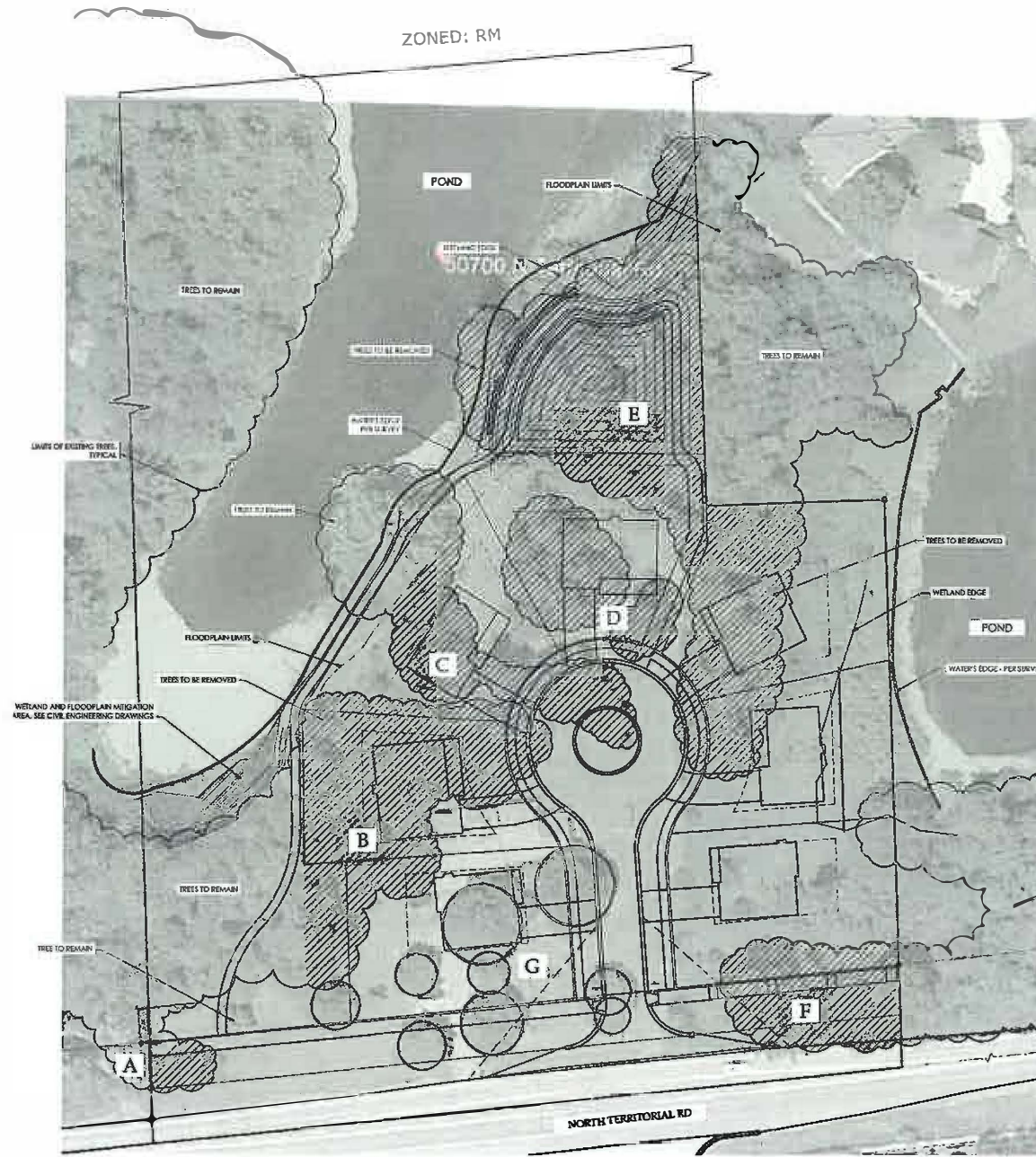
STATEMENT OF WORKING ON REDUCING FLOOD VULNERABILITY (WATER RESOURCES DIVISION, U.S. ARMY CORPS OF ENGINEERS, 2016) (SOURCE: COMMUNITY ID NO. 50027) (STATION: 14) WITH AN EFFECTIVE DATE OF FEBRUARY 2, 2012. THIS STATEMENT IS BASED ON THE RESULTS OF RAISED FLOODING (ON THE ABOVE NAMED MAPS AND PARCELS, WHICH IS THE DANGER MAPS FOR THE COMMUNITY IN WHICH THE PROPERTY IS LOCATED, ZONE "A" INDICATES NO BASE FLOOD ELEVATIONS DETERMINED).

NOTICE: THE CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES EXPOSED DURING THE WORK. OF ANY REMOVAL, STRUCTURES, OR OF ANY OTHER.

NOTE: THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN ALL PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES EXPOSED DURING THE WORK. OF ANY REMOVAL, STRUCTURES, OR OF ANY OTHER.



DATE: 1-13-2018 DRAWN BY: TOL CHECKED BY: JAL DESIGNED BY: JAL	TOWN: 30 RANGE: 2 E SECTION: 30	CLIENT: TROWBRIDGE PROJECT: TOPOGRAPHIC SURVEY 50700 N. TERRITORIAL ROAD - PARCEL NO. 78-042-99-0002-701 SECTION 30 TOWNSHIP 1 S. PLYMOUTH TOWNSHIP WAYNE COUNTY MICHIGAN		<p>GREENTECH ENGINEERING, INC. CIVIL ENGINEERS & LAND SURVEYORS</p> <p>51111 N. Pontiac Trail, Warren, MI 48093 Phone: (248) 688-0700 FAX: (248) 688-0701</p>
---	---------------------------------------	--	--	---

**TREES TO BE REMOVED BY AREA:****AREA A**

- (3) 12" JACK PINE
- (1) 8" JACK PINE

AREA B

- (2) 10" JACK PINE
- (3) 9" JACK PINE
- (2) 8" JACK PINE
- (2) 8" ELM
- (1) 10" ELM
- (1) 14" ELM
- (1) 13" JACK PINE
- (1) 20" BLACK CHERRY
- (1) 11" NORWAY MAPLE
- (1) 21" SUGAR MAPLE

AREA C

- (1) 10" WILDBERRY
- (5) 9" JACK PINE
- (5) 10" JACK PINE
- (2) 12" JACK PINE
- (1) 13" JACK PINE
- (5) 14" JACK PINE
- (1) 10" JACK PINE
- (1) 10" APPLE TREE
- (1) 12" APPLE TREE

AREA D

- (1) 10" JACK PINE
- (1) 15" JACK PINE
- (1) 14" JACK PINE
- (1) 16" JACK PINE
- (1) 17" SCOTCH PINE
- (1) 28" SCOTCH PINE
- (1) 24" COTONWOOD

AREA E

- (1) 21" BLACK CHERRY
- (1) 20" BLACK WALNUT
- (1) 9" ELM
- (1) 18" JACK PINE
- (1) 20" SCOTCH PINE
- (1) 22" SCOTCH PINE

AREA F

NO TREES 8" DBH OR GREATER ARE BEING REMOVED

AREA G

- (1) 12" BLACK WALNUT
- (1) 17" NORWAY MAPLE
- (1) 18" NORWAY MAPLE
- (2) 24" NORWAY MAPLE
- (1) 14" SUGAR MAPLE
- (1) 31" NORWAY MAPLE
- (1) 16" RED MAPLE
- (1) 10" RED MAPLE

TOTAL INCHES REMOVED: 900
TOTAL INCHES OF REQUIRED REPLACEMENT: 226 (900 / 4)
TOTAL REPLACEMENT INCHES PROVIDED: 226
Notes shown L to R and U to S from top to bottom

SURVEY PROVIDED BY:
Peters Engineering Assoc., LLC
6700 Cornerstone Drive
Yonkers, NY 10550
248.714.9995

JOB NUMBER: 15-473
DATE: March 5, 2018

SCALE: 1" = 30'-0"



Project:
09.14.2016 Prelim Site Plan Review
03.20.2017 Revision per Township
04.15.2020 Revision per Township
08.22.2020 Revision per Township

The Ponds at Andover
Plymouth Township, MI

Project Name:
Trawbridge Homes
2617 Beacon Hill Drive
Auburn Hills, MI 48326

Tree Removal Plan

NOT FOR CONSTRUCTION



Drawn: JG
Checked: JG
Date: 09.04.2018
Scale: 1" = 30'-0"

Printed Name:
15.025

Sheet Number:
L-1

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NOTE KEY:

- ① **INSISTED POINT**
- ② **INSISTED THEM TO REMAIN**
- ③ **PROMPTED CLO-DEAC**
- ④ **PROMPTED LOTS AND MORE**
- ⑤ **PROMPTED CO-ORDINATE SPOTLIGHT MANAGER**
WALK THROUGH HAZARDOUS AREA TO AVOID
CONFLICT
- ⑥ **PROMPTED STEPHANO REALISE CAR**
BEING DRIVEN AWAY
- ⑦ **INLAND FISH LIVE OFF BEACHING**
DIAMOND FOR AROUND OF PERFORMANCE AND
CONCENTRATION
- ⑧ **DEVELOP CANOPY TREE, IDENTIFY OTHER**
- ⑨ **EXPLORE TREE, IDENTIFY CANOPY**
- ⑩ **PROTECTIVE MEASURES, IDENTIFY OTHER**
- ⑪ **PROTECT PLANTS, IDENTIFY OTHER**
- ⑫ **SOOED JOHN OTHER ANIMALS A LITTLE**
TO THE SOUTH OF THEM
- ⑬ **SHEDDING A LOT OF WATER, IDENTIFY OTHER**
TO IDENTIFY COORDINATE
- ⑭ **20 CALIFORNIA TRANSIT**

NOTE

1. All outdoor utility boxes and A/C units shall be screened on three sides once final location has been determined and approved.
2. To - Three re-landscaping requirement planting

GENERAL LANDSCAPE NOTES

- [illegible]

PLANT SCHEDULE

TUES										
STY	STN	FORMAL NAME	COMMON NAME	HT	WE	PLACING	BODY	COMMENTS	EST	TOTAL
1	18	James A. McLaughlin	James A. McLaughlin	5' 11"	160 lbs	12-13	12-13	Weight 20 lbs	400.00	1,400.00
2	19	Chris de la Cruz	Chris de la Cruz	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
3	20	Chris James "Big Boy"	Chris James "Big Boy"	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	280.00	1,120.00
4	21	Chris James "Big Boy"	Chris James "Big Boy"	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	280.00	1,120.00
5	22	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
6	23	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
7	24	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
8	25	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
9	26	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
10	27	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
11	28	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
12	29	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
13	30	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
14	31	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
15	32	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
16	33	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
17	34	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
18	35	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
19	36	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
20	37	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
21	38	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
22	39	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
23	40	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
24	41	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
25	42	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
26	43	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
27	44	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
28	45	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
29	46	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
30	47	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
31	48	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
32	49	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
33	50	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
34	51	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
35	52	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
36	53	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
37	54	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
38	55	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
39	56	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
40	57	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
41	58	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
42	59	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
43	60	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
44	61	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
45	62	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
46	63	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
47	64	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
48	65	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
49	66	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
50	67	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
51	68	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
52	69	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
53	70	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
54	71	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
55	72	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
56	73	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
57	74	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
58	75	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
59	76	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
60	77	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
61	78	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
62	79	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
63	80	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
64	81	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
65	82	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
66	83	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
67	84	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
68	85	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
69	86	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
70	87	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
71	88	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
72	89	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
73	90	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
74	91	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
75	92	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
76	93	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
77	94	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
78	95	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
79	96	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
80	97	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
81	98	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
82	99	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
83	100	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
84	101	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
85	102	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
86	103	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
87	104	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
88	105	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
89	106	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
90	107	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
91	108	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13	Weight 10 lbs	400.00	1,400.00
92	109	Ar. Ar. "Duke" (Chick) - 10 lbs	Ar. Ar. "Duke" (Chick) - 10 lbs	5' 10"	150 lbs	12-13	12-13			

CONCLUSIONS

[illegible]

NOT FOR CONSTRUCTION



veriverde
landscape
architecture
731 249-3558 plymouth, MA
info@veriverde.com

	Revised for
09.14.2018	Prelim Site Plan Review
03.20.2019	Revision per Township
06.24.2020	Revision - Entry Sign

The Ponds at Andover
Plymouth Township, MI

Project Sponsor:
Trowbridge Homes
2617 Beacon Hill Drive
Auburn Hills, MI 48326

Landscape Plan South

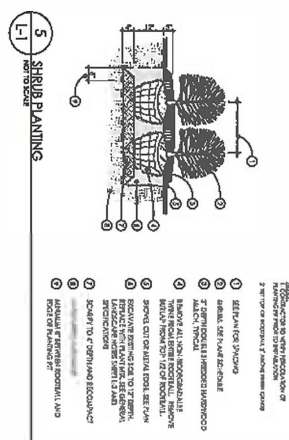
1

Drawn: JG
 Checked: JG
 Date: 09/06/2016
 Scale: 1" = 20'-0"

Project Number: 18.025
Sheet Number: L-2

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811
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THE PONDS AT ANDOVER OF PLYMOUTH CLUSTER HOUSING AGREEMENT

THIS AGREEMENT (the "Agreement") entered into as of this ____ day of _____, 2020 by **THE PONDS AT ANDOVER**, a Michigan Limited Liability Company the Legal Owner/Land Contract Vendor, (the "Owner and Developer"), whose address is **2617 BEACON HILL DR, AUBURN HILLS, MI 48326**, a Michigan nonprofit corporation (the "Condominium Association"), and the Charter Township of Plymouth, a Michigan municipal corporation, located at 9955 North Haggerty Road, Plymouth, Michigan 48170 (the "Township").

WITNESSETH:

WHEREAS, the Zoning Ordinance of the Charter Township of Plymouth, being Ordinance No. 99, provides for an optional method of development whereby cluster housing can be constructed upon appropriately zoned premises, without compliance with lot setback, side yard and other similar limitations, as more fully set forth in Article XXII of said ordinance; and

WHEREAS, the Owner and the Developer desire to develop a project of not more than **SEVEN (7)** dwelling units upon premises described in Section 1 below (the "Project"), said project to be developed as a residential building site condominium project to be known as **THE PONDS AT ANDOVER** of Plymouth (sometimes hereinafter referred to as the "Condominium Association"), under the Michigan Condominium Act, being Act 59 of the Public Acts of 1978, as amended (the "Condominium Act"), and desires to obtain the benefit of the provisions of the cluster housing sections of Ordinance No. 99, which provisions require approval and execution of a contract providing assurances to the Township as to the installation of certain improvements and including, without limitation, the maintenance of public utilities, roadways and open spaces.

NOW, THEREFORE, in consideration of the mutual covenants herein contained and in consideration of the approval of the project by the Township under Article XXII of Ordinance No. 99, the parties hereby agree as follows:

1. **Legal Description of Real Property Constituting Project.** The real property (sometimes hereinafter referred to as the "Real Property") to which this Agreement pertains is situated in the Charter Township of Plymouth, County of Wayne, State of Michigan, and is legally described as:

PARCEL 1: PART OF THE NORTHWEST QUARTER OF SECTION 30, T1S., R8E, PLYMOUTH TOWNSHIP, WAYNE COUNTY, MICHIGAN, DESCRIBED AS: BEGINNING S87°13'20"W, ALONG

THE NORTH LINE OF SECTION 30; THENCE S87°13'20"W, ALONG THE NORTH LINE OF SECTION 30, 338.32 FEET; THENCE S00°00'49"W, 1307.17 FEET; THENCE N86°00'00"E, ALONG THE CENTERLINE OF NORTH TERRITORIAL ROAD, 337.75 FEET; THENCE N00°03'28"E, 1300.00 FEET TO THE POINT OF BEGINNING, EXCEPT THE NORTHERLY 300.00 FEET COMMENCING AT THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE S85°09'23"W, 685.00 FEET TO THE POINT OF BEGINNING; THENCE S02°00'29"E, 300.00 FEET; THENCE S85°09'16"W, 338.09 FEET; THENCE N02°03'08"W, 300.00 FEET; THENCE N85°09'23"E, 338.82 FEET TO THE POINT OF BEGINNING.

PARCEL 2: PART OF THE NORTHWEST QUARTER OF SECTION 30, T1S, R8E, PLYMOUTH TOWNSHIP, WAYNE COUNTY, MICHIGAN, DESCRIBED AS: COMMENCING AT THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE, ALONG THE NORTH/SOUTH QUARTER LINE OF SECTION 30; THENCE, ALONG THE NORTH/SOUTH QUARTER LINE OF SECTION 30 AND THE CENTERLINE OF GOTTSCHALK ROAD, S02°01'13"E, 1,284.22 FEET TO THE CENTERLINE OF NORTH TERRITORIAL ROAD (SAID POINT BEING LOCATED N02°01'13"W, 1382.75 FEET FROM THE CENTER OF SAID SECTION 30); THENCE S84°02'17"W, 580.82 FEET, ALONG THE CENTERLINE OF NORTH TERRITORIAL ROAD TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 84°02'17"W, 105.25 FEET, ALONG THE CENTERLINE OF NORTH TERRITORIAL ROAD; THENCE N02°00'29"W, 340.15 FEET; THENCE N87°

Property ID: 78-042-99-0002-701

Subject to visible easements and easements and restrictions of record.

2. **Ownership of Land.** The real Property, including any mineral rights thereon, described in Section 1 is owned in fee simple by the Legal Owner/Land Contract Vendor (Owner) and Equitable Owner/Land Contract Vendee (Developer). Owner and Developer warrant that this Agreement and the provisions hereof are covenants running with the land and binding on all future Owners and Developers and possessors of the Real Property. Owner and Developer warrants that this Agreement is not now and will not in the future be subordinated by Owner and Developer to the rights, obligations or interest of any person or entity.

3. **Future Ownership of Land.** The Real Property which is established as **THE PONDS AT ANDOVER** by recording a Master Deed by the Owner and Developer will be owned by individual owners of condominium units as Co-owners pursuant to the Condominium Act and all responsibilities for the maintenance, upkeep, repair and replacement of all general common elements shall be discharged by the Association which has been or will be formed by the Owner and Developer for the purpose of operating and managing the Project. Each future Owner will acquire all mineral rights in his or her Unit.

4. **Open Land and Public Improvements.** The general common elements of the Project shall include those items identified in the Master Deed of the Condominium Project such as roads, streets and ways, open space land and underground utility mains for storm and sanitary sewers, water supply, natural gas and other fuels, electricity and cable communications, including telephone and television (such specific general common elements being hereinafter referred to as "Public Improvements") Further, the Public Improvements shall include all details noted as Public Improvements on the final Site Plan, a copy of which is attached as Exhibit A to this Agreement and incorporated by reference, including the grading, landscaping and storm water drainage system. Nothing contained in this Agreement shall constitute or have the effect of making any Public Improvement on the general common elements "public property" or the property of the Township. Any of the Public Improvements may be accepted for either ownership or jurisdiction

by the Township, in its sole discretion, by mutual agreement of Owner and Developer or the Association, by instruments separate from this Agreement. The Owner or Developer shall be responsible for completing, or posting security with the Building Department to insure completion of all required landscaping, roadways and other site improvements as shown on Exhibit A, prior to obtaining building permits for the residences to be constructed. The security shall be in the form of a bond, irrevocable letter of credit, or other security deemed sufficient by the Chief Building Official, and shall be in an amount sufficient to insure completion of all required improvements, as determined by the Chief Building Official.

5. Creation of THE PONDS AT ANDOVER of Plymouth Association. Owner or Developer shall establish a Condominium Association for the purpose of operating and maintaining the common elements. It is intended that the Co-owners of each of the condominium units in **THE PONDS AT ANDOVER** of Plymouth shall become the owners of the general common elements on the Real Property.

6. Right of Township to Maintain, Repair and Replace.

(a) If the Township shall determine any maintenance, repair or replacement of Public Improvements is needed, the Township shall give written notice of its intent to construct, maintain, repair or replace such Public Improvements (hereinafter called the "Notice To Correct") for or on behalf of and at the expense of the Owner and Developer, the Condominium Association, and the Co-owners, whichever may be applicable. The written Notice To Correct shall contain the estimated cost thereof and the Township shall allow the Owner and Developer or Condominium Association SIXTY (60) days from the written Notice To Correct either to correct all items or to show cause why any items to be corrected as indicated within the written Notice To Correct do not need correction.

(b) Upon receipt by the Association of the Township's Notice To Correct with respect to such Public Improvements, the directors of the Condominium Association shall forthwith, and in any event within ninety (90) days, either correct the items to be corrected as indicated within the written Notice to Correct and assess the Co-owners in accordance with the Condominium Act and the Master Deed, in order to defray the actual costs or estimated costs of maintaining, repairing or replacing the Public Improvements as set forth in the Notice To Correct by the Township. It is the intent of this provision to impose upon the Condominium Association and each Co-owner of any Condominium Unit (including the Owner and Developer to the extent it owns any Units) established upon the real Property described in Section 1 hereof, an affirmative obligation

- (i) to maintain, repair and replace, if necessary, the Public Improvements; and
- (ii) to cause the cost of maintenance, upkeep, repair and replacement to be assessed to and imposed as a lien and a personal obligation upon each Co-owner of any Condominium Unit within the Project .

(c) If it deems it to be necessary in the interest of public health, safety or welfare of the Co-owners, residents of neighboring property, other residents of the Township, or the Township as a governmental unit including its employees, agents and contractors, the Township has the right,

but not the duty, to immediately initiate and complete any maintenance, repair or replacement, and the entire cost thereof together with the Township standard charges therefore and including any reasonable and appropriate charges for related overhead, supervision and inspection, shall be assessed, collected and paid to the Township no later than one hundred eighty (180) days following submission by the Township of its bill; nonpayment of the amount billed after ninety (90) days shall bear interest on principal sum at the rate of TEN (10%) percent per annum, but such rate shall not exceed the generally accepted and utilized prime rate for commercial loans by commercial banks operating in the Township.

(d) Nothing contained herein shall be construed to create an obligation on the part of the Owner and Developer to maintain, repair or replace the Public Improvements after control of the Public Improvements has passed to the Co-owners of the Condominium pursuant to the Master Deed and Bylaws of _____ of Plymouth Condominiums, except as the Owner and Developer may be required to share with other unit owners any such obligation as the owner of a unit in the Condominium.

7. **Costs.** All costs of maintenance, repair and replacement of any Public Improvements, the cost of recording this Agreement and Exhibits made part of this Agreement and any legal liability arising from this Agreement or actions taken pursuant to this Agreement, shall be the primary obligation of the Owner and Developer until control of the Project has passed to the Co-owners of the Condominium or the Condominium Association, provided, however, that the Owner and Developer shall be entitled to reimbursement from the Condominium Association or other condominium unit owners as the case may be, for any amounts paid hereunder to or on account of the Township for expenses and costs otherwise required to be shared by all unit owners: provided, further, that nothing herein contained shall relieve the Owner and Developer of the obligations to pay the initial installation costs of any Public Improvements which it is otherwise required to bear.

8. **License to Enter Land.** The Township is granted an irrevocable license to enter upon, through and across the Real Property described as the Project at any time for any purpose to effectuate the terms and conditions of the Agreement. The right to enter upon, through and across the Real Property shall extend to any authorized official, agent, employee or representative of the Township and to any independent contractor or subcontractor as the Township may designate.

9. **Restrictive Covenants, Master Deed and Condominium Bylaws.** Any and all restrictive covenants, deed restrictions, master deed, condominium bylaws, rules and regulations and any other instrument or act by the Owner and Developer, the Condominium Association, their successors or assigns, and all successors in title to the Real Property, shall be in accordance with this Agreement and shall contain such provisions as are necessary to fulfill the letter and intent of this Agreement and to effectuate the provisions hereof, and the Township may enforce this Agreement and all such other documentary provisions arising herefrom, whether at law or in equity, and including, without limitation, by specific performance. The parties acknowledge that, coincident with approval and execution hereof the Township has approved the proposed Master Deed and Bylaws of **THE PONDS AT ANDOVER** of Plymouth Condominiums as being in conformity with this Cluster Housing Agreement. Owner and Developer agrees that it will cause said Master Deed and Bylaws to be duly recorded in substantially the same form as

heretofore approved by the Township. No change in such documents which affects any rights of the Township shall be made without Township approval. The parties additionally agree that, in connection with any conveyance of a "building site" or "condominium unit" in **THE PONDS AT ANDOVER** of Plymouth Condominiums, the seller thereof shall be required to provide copies of this Cluster Housing Agreement and _____ of Plymouth Condominiums Master Deed and Bylaws to the purchaser of such building site or condominium unit and to advise such purchaser that he is purchasing a site condominium unit. The Township shall have the same rights to abate any violation of this requirement as set forth in Paragraphs 6 through 8 of this Agreement.

In particular, all houses erected in **THE PONDS AT ANDOVER** of Plymouth shall adhere to the following standards (also contained in the Condominium Bylaws):

1. Minimum living area size:
 - a. 1,662 square feet for 1 story houses
 - b. 2,100 square feet for 1.5 story houses
2. All first floor exterior wall materials shall be brick, stone, or similar decorative masonry materials and said materials will extend to the ground surface.
3. All exterior chimneys will be brick, stone or similar decorative masonry material.
4. At least two different floor plans will be offered in the development.
5. Each floor plan will provide for at least 3 different elevation treatments.
6. The same elevation will not be built on two adjacent lots.

10. Completion of Project by the Owner and the Developer and Maintenance Obligations of the Association. The Owner and Developer shall complete the Project in accordance with the site plan approved by the Township and in accordance with this Agreement. The Owner and the Developer shall post such security as reasonably required by the Township to assure completion of the Project. The Association shall maintain the common elements of the Project and otherwise perform its maintenance obligations in accordance with the Master Deed and Bylaws for **THE PONDS AT ANDOVER** of Plymouth and in accordance with this Agreement. The Association shall levy and collect all assessments necessary to perform its maintenance obligations from the co-owners of **THE PONDS AT ANDOVER** of Plymouth in accordance with the Master Deed and Bylaws and Condominium Act.

11. Compliance with Township Zoning Ordinance. Notwithstanding any other provision of this Agreement, the Owner and the Developer, and the Association, shall comply with all requirements of the Plymouth Township Zoning Ordinance.

12. Rights of Township Subject to Township Sole Discretion. Nothing contained in this Agreement shall waive, prejudice, impair or affect the rights of the Township to enforce any current or future ordinance, regulation or law. Further, the Township may elect to enforce or to forego any rights granted to the Township by this Agreement in its sole discretion. To the degree that the immediately foregoing sentences and the clear understanding evidenced therein shall be held for naught or varied in any respect by a court of competent jurisdiction, then the signatures of the clerk and the supervisor shall be deemed to be set aside and held void, ab initio, all without liability, cost or damage to the supervisor, clerk and Township. Any action taken by the Township pursuant to the provisions of this Agreement shall be voluntary and shall not be enforceable by any of the other parties to this Agreement or by any third party claiming benefits hereunder,

without due cause or a showing of negligence on the part of the Township.

13. **Recording.** This Agreement shall be executed in recordable form and recorded in the office of the Wayne County Register of Deeds by the Owner and the Developer immediately after execution hereof by the Township and upon recording, a true and genuine copy of this Agreement displaying the liber and pages of recording shall be supplied to the Township.

14. **Severability.** Invalidation of any one or more of these covenants by judgment or decree or order of any court shall in no way affect or invalidate any of the other provisions which shall continue to remain in full force and effect. The covenants herein contained shall be binding upon the parties hereto and their respective successors and assigns and shall run with the title to the Real Property, unless and until amended, altered or terminated pursuant to agreement between the Township and the Owner and Developer, so long as the Owner and Developer owns any portion of the Real Property described in Section 1 hereof, and thereafter by the Condominium Association.

15. **Association Bound.** **THE PONDS AT ANDOVER** of Plymouth Condominium Association joins in the execution of this Agreement for the purpose of undertaking the covenants required of it and the Co-owners of the Condominium as successors to Owner and Developer and as expressly set forth herein.

16. **Site Plan.** Exhibit A, attached hereto and incorporated by reference, is subject to approval by the Township pursuant to Ordinance No. 99.

17. **Modifications.** Amendments. No modifications or amendments of this Agreement shall occur without the written consent of the Township.

18. **Counterparts.** This agreement may be executed in any number of counterparts, each of which will be deemed to be an original, and all counterparts, when taken together, will constitute one and the same agreement. The parties agree that signatures on this agreement may be delivered by facsimile or electronically in lieu of an original signature and agree to treat facsimile or electronic signatures as original signatures that bind them to this agreement.

[The remainder of this page is intentionally blank, signature pages to follow.]

IN WITNESS WHEREOF, the parties have executed this instrument as of the dates indicated hereinbelow.

WITNESSES:

THE PONDS AT ANDOVER, LLC, A
Michigan Limited Liability Company

By: _____
Anthony F. Randazzo
Authorized Representative

“Owner and Developer”

The Ponds at Andover Condominium
Association, a Michigan nonprofit
corporation

By: _____
Anthony Randazzo,
Authorized Representative

“Condominium Association”

STATE OF MICHIGAN)
) ss.
COUNTY OF OAKLAND)

The foregoing instrument was acknowledged before me this _____ day of _____, 2019, by _____, authorized representative of _____ and _____ of Plymouth Condominium Association, on behalf of each.

Notary Public

County, Michigan
My Commission Expires: _____



TOWNSHIP OF PLYMOUTH BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: 2020 Sanitary Sewer Rehabilitation Program

PRESENTER: Patrick J. Fellrath, PE, Director of Public Services
Jeremy Schrot, PE, Spalding DeDecker

BACKGROUND:

Program consists of rehabilitating approximately 2,500 linear feet of sanitary sewer by installing cured-in-place pipe (CIPP). Sewers to be rehabilitated are located in several locations throughout the Township.

Work is in accordance with the Township's Wastewater Asset Management Plan and part of the 2020 Sewer CIP.

ACTION REQUESTED: Approve

BUDGET/ACCOUNT NUMBER: Water and Sewer/ 592-291-970.000

MODEL RESOLUTION: I move to award the contract for Sanitary Sewer Lining and Reconstruction to Inland Waters Pollution Control, Inc., in the amount of \$431,879.25.

Attachment: Bid Tab; and Bid Award Recommendation Letter dated August 19, 2020.

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION TO APPROVE CONTRACT FOR SANITARY SEWER
LINING AND RECONSTRUCTION**

RESOLUTION # 2020-08-25-77

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the 'board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, MI on August 25, 2020, the following resolution was offered:

WHEREAS, bids were received for the Sanitary Sewer Lining and Reconstruction on August 12, 2020, and;

WHEREAS, Spalding DeDecker reviewed and tabulated the bids and recommends award to the low bidder, Inland Waters Pollution Control, Inc.,

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2020-08-25-77** authorizing the attached award of the contract for Sanitary Sewer Lining and Reconstruction to the low bidder, Inland Waters Pollution Control, Inc., in the amount of \$431,879.25.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Vorva, ___Clinton, ___Curmi, ___Dempsey, ___Doroshewitz, ___Heise, ___Heitman



August 19, 2020

Mr. Jerry Vorva, Clerk
Charter Township of Plymouth
9955 N. Haggerty Road
Plymouth, Michigan 48170

Re: **Recommendation for Award**
Sanitary Sewer Lining and Reconstruction
SDA Project No.: Job No PL20005

Dear Mr. Vorva:

On August 12, 2020 at 2:30 p.m., construction bids were opened and publicly read at the Plymouth Township Offices for the Sanitary Sewer Lining and Reconstruction project. The project includes sewer lining and removal and replacement of sanitary sewer.

The Township Clerk's office received one (1) sealed bid for this project. The bidders was considered to be responsive having submitted a bid compliant with all requirements. The bidder, Inland Waters Pollution Control, Inc., submitted a total bid of \$431,879.25. Following the bid opening, Spalding DeDecker reviewed the bid received, verified the calculations, and prepared the bid tabulation for the project (attached).

Based on a review of experience, Spalding DeDecker finds that Inland Waters Pollution Control, Inc. is qualified and prepared to perform the required construction.

It is our recommendation that the project be awarded to the low bidder, Inland Waters Pollution Control, Inc., for the Sanitary Sewer Lining and Reconstruction in the amount of \$414,379.25, which is the total bid of \$431,879.25 minus \$17,500.00 for crew days bid.

Upon award by the Township Board, our office will coordinate the completion of the Contract Agreement, Bonds, and Insurance information with Waters Pollution Control, Inc..

Very Truly Yours,
SPALDING DEDECKER



Taylor E. Reynolds, PE
Project Coordinator

Encl: Bid Tabulation

**BID TABULATION - SANITARY SEWER LINING AND RECONSTRUCTION
PLYMOUTH TOWNSHIP**

1 Bid received, opened 08/12/20

Project No. PL20005

By: TER

Reviewed: JS

BASE BID				INLAND WATERS	
No		QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)
1	Bonds, Insurance and Mobilization (10% Max.)	1	LS	\$15,500.00	15,500.00
2	Pre-Construction Audio-Visual	1	LS	\$1,500.00	1,500.00
3	Soil Erosion Control Measures	1	LS	\$3,200.00	3,200.00
4	Temporary Traffic Control Devices	1	LS	\$8,500.00	8,500.00
5	Pavt, Rem	110	SY	\$38.50	4,235.00
6	Bypass Pumping	1	LS	\$17,500.00	17,500.00
7	Sewer, Rem, 4 Inch	91	LF	\$38.00	3,458.00
8	Sewer, Rem, 18 Inch	488	LF	\$45.00	21,960.00
9	Sanitary Sewer, PVC SDR 26, 18 Inch	488	LF	\$295.00	143,960.00
10	Sewer Lead, PVC SDR 23.5, 6 Inch	91	LF	\$255.00	23,205.00
11	Str Rehab Type 2: Structure Cover Adjust (As Needed)	3	EA	\$3,000.00	9,000.00
12	Structure Cover, Type SAN (As Needed)	3	EA	\$1,400.00	4,200.00
13	Aggregate Surface CSE, 10 Inch	477	SY	\$33.50	15,979.50
14	Aggregate Base, 8 Inch	109	SY	\$31.75	3,460.75
15	HMA, 5E3	27	TON	\$380.00	10,260.00
16	HMA, 4E3	8	TON	\$635.00	5,080.00
17	CIPP Lining, 12 Inch	880	LF	\$54.00	47,520.00
18	CIPP Lining, 15 Inch	691	LF	\$56.00	38,696.00
19	CIPP Lining, 24 Inch	339	LF	\$85.00	28,815.00
20	Restoration	1	LS	\$6,350.00	6,350.00
21	Permit Allowance	2000	DLR	\$1.00	2,000.00
22	Inspection Crew Days	\$ 700.00	DAY	25	17,500.00

TOTAL

431,879.25



TOWNSHIP OF PLYMOUTH BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: Country Acres Pump Station Improvements

PRESENTER: Patrick J. Fellrath, PE, Director of Public Services
Jeremy Schrot, PE, Spalding DeDecker

BACKGROUND:

Program consists of rehabilitating the sanitary sewer lift station for Country Acres Subdivision located along Ann Arbor Rd just west of Fellows Creek Dr. Rehabilitation includes pump replacement, roof replacement, driveway and concrete improvements, by-pass piping improvements, storm sewer and site grading.

Work is in accordance with the Township's Wastewater Asset Management Plan and part of the 2020 Sewer CIP.

ACTION REQUESTED: Approve

BUDGET/ACCOUNT NUMBER: Water and Sewer/ 592-291-970.000

MODEL RESOLUTION: I move to award the contract for Country Acres Pump Station Improvements to Lee's Industrial Contracting in the amount of \$154,551.57.

Attachment: Bid Tab; and Award Recommendation Letter dated August 19, 2020.

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION TO APPROVE CONTRACT FOR COUNTRY ACRES
PUMP STATION IMPROVEMENTS**

RESOLUTION # 2020-08-25-78

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the 'board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, MI on August 25, 2020, the following resolution was offered:

WHEREAS, bids were received for the Country Acres Pump Station Improvements on August 12, 2020, and;

WHEREAS, Spalding DeDecker reviewed and tabulated the bids and recommends award to the low bidder, Lee's Industrial Contracting.

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2020-08-25-78** authorizing the attached award of the contract for Country Acres Pump Station Improvements to the low bidder, Lee's Industrial Contracting, in the amount of \$154,551.57.

Moved by: _____ Seconded by: _____

ROLL CALL:

____ Vorva, ____ Clinton, ____ Curmi, ____ Dempsey, ____ Doroshewitz, ____ Heise, ____ Heitman



August 19, 2020

Mr. Jerry Vorva, Clerk
Charter Township of Plymouth
9955 N. Haggerty Road
Plymouth, Michigan 48170

Re: **Recommendation for Award**
Improvements to Country Acres Sanitary Pump Station
SDA Project No.: Job No PL20005

Dear Mr. Vorva:

On August 12th, 2020 at 2:00 p.m., construction bids were opened and publicly read at the Plymouth Township Offices for the Improvements to Country Acres Sanitary Pump Station. The project includes removal and replacement of Pump #3, some site improvements, by-pass improvements and roof replacement.

The Township Clerk's office received four (6) sealed bids for this project. The six bidders were considered to be responsive having submitted a bid compliant with all requirements. The apparent low bidder, Lee's Industrial Contracting, submitted a total bid of \$154,551.57. Following the bid opening, Spalding DeDecker reviewed all of the bids received, verified the calculations, and prepared the bid tabulation for the project (attached).

Based on a review of experience and references provided, Spalding DeDecker finds that Lee's Industrial Contracting is qualified and prepared to perform the required construction.

It is our recommendation that the project be awarded to the lowest responsive bidder, Lee's Industrial Contracting in the amount of \$144,051.57, which is the total bid of \$154,551.57 minus \$10,500.00 for crew days bid.

Upon award by the Township Board, our office will coordinate the completion of the Contract Agreement, Bonds, and Insurance information with Lee's Industrial Contracting.

Very Truly Yours,
SPALDING DEDECKER

Alex Fleet, P.E.
Senior Project Engineer

Encl: Bid Tabulation

**BID TABULATION - IMPROVEMENTS TO COUNTRY ACRES SANITARY PUMP STATION
CHARTER TOWNSHIP OF PLYMOUTH**

8 Bids received, opened 08/12/20

Project No. **PL20005**

By: **AJF**

Reviewed: _____

BASE BID				CONTRACTOR 1 - Lee Industrial		CONTRACTOR 2 - Lawrence M Clarke		CONTRACTOR 3 - Weiss Construction Company	
No		QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)
1	Bonds, Insurance and Mobilization (10% Max.)	1	LS	\$4,085.00	4,085.00	\$19,764.50	19,764.50	\$21,000.00	21,000.00
2	Pre-Construction Audio-Visual	1	LS	\$0.00	-	\$5,000.00	5,000.00	\$1,250.00	1,250.00
3	Soil Erosion Control Measures	1	LS	\$1,380.00	1,380.00	\$3,000.00	3,000.00	\$5,000.00	5,000.00
4	Site Removals (Asphalt, Conc., Clear & Grub)	1	LS	\$4,845.00	4,845.00	\$6,000.00	6,000.00	\$3,000.00	3,000.00
5	Roof Replacement	1	LS	\$7,350.00	7,350.00	\$17,000.00	17,000.00	\$18,000.00	18,000.00
6	By-Pass Piping and Modifications	1	LS	\$11,816.50	11,816.50	\$7,000.00	7,000.00	\$25,000.00	25,000.00
7	Remove Pump #3 & Return to Owner, Complete	1	EA	\$4,017.50	4,017.50	\$12,000.00	12,000.00	\$11,000.00	11,000.00
8	Replace Exhaust Fan	1	EA	\$6,300.00	6,300.00	\$8,000.00	8,000.00	\$7,000.00	7,000.00
9	Portable Hoist	1	EA	\$4,035.00	4,035.00	\$9,000.00	9,000.00	\$8,000.00	8,000.00
10	Pump #3, Installed Complete	1	EA	\$38,035.00	38,035.00	\$48,000.00	48,000.00	\$50,000.00	50,000.00
11	Level Indicating Transducer, Installed Complete	1	EA	\$1,760.00	1,760.00	\$6,900.00	6,900.00	\$12,000.00	12,000.00
12	12" RCP Storm Sewer	77	LF	\$90.91	7,000.07	\$80.00	4,620.00	\$100.00	7,700.00
13	Storm Sewer Catch Basin w/ casting	1	EA	\$3,728.00	3,728.00	\$3,000.00	3,000.00	\$4,500.00	4,500.00
14	Storm Sewer Flared End Section	1	EA	\$945.50	945.50	\$1,000.00	1,000.00	\$2,000.00	2,000.00
15	Concrete Pavement	475	SF	\$14.20	6,745.00	\$15.00	7,125.00	\$20.00	9,500.00
16	Asphalt Pavement Base, Complete	50	SY	\$120.00	6,000.00	\$70.00	3,500.00	\$20.00	1,000.00
17	Asphalt Pavement Top, Complete	350	SY	\$80.86	28,301.00	\$70.00	24,500.00	\$30.00	10,500.00
18	Site Grading	1	LS	\$2,938.00	2,938.00	\$12,000.00	12,000.00	\$2,000.00	2,000.00
19	Site Restoration	1	LS	\$4,970.00	4,970.00	\$8,000.00	8,000.00	\$2,500.00	2,500.00
20	Inspection Days	\$ 700.00	EA	15	10,500.00	20	14,000.00	40	28,000.00
TOTAL					154,551.57		217,409.50		226,950.00

Other Bids Received: CONTRACTOR 4 - Reliance Building Co. \$241,680.00
 CONTRACTOR 5 - LaSalle Construction \$338,300.00
 CONTRACTOR 6 - Cross Construction \$436,025.00

*Lee's Industrial's Bid includes minor mathematical corrections



TOWNSHIP OF PLYMOUTH BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: Emergency/As-needed Water Main Repair Services Contract

PRESENTER: Patrick J. Fellrath, PE, Director of Public Services
Jeremy Schrot, PE, Spalding DeDecker

BACKGROUND:

Bids were solicited for services to assist DPW in responding to emergency/as-needed water main repairs which require additional resources, above and beyond those available to the DPW. Repairs include water main breaks under concrete such as paved roads, deep unstable soils and/or close proximity to buildings or other large structures/obstructions.

ACTION REQUESTED: Approve

BUDGET/ACCOUNT NUMBER: GL # 592-291-932.000

MODEL RESOLUTION: I move to award the contract for Emergency/As-needed Water Main Repair Services to Superior Excavating, Inc., based on their unit price bid submitted on June 25, 2020.

Attachment: Bid Award Recommendation Letter

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION TO APPROVE CONTRACT FOR EMERGENCY/AS-NEEDED
WATER MAIN REPAIR SERVICES**

RESOLUTION # 2020-08-25-79

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the 'board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, MI on August 25, 2020, the following resolution was offered:

WHEREAS, bids were received for the Emergency/As-Needed Water Main Repair Services Contract on June 25, 2020, and;

WHEREAS, Spalding DeDecker reviewed and tabulated the bids and recommends award to the low bidder, Superior Excavating, Inc.

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2020-08-25-79** authorizing the attached award of the contract for Emergency/As-Needed Water Main Repair Services to the low bidder, Superior Excavating, Inc., in accordance with the bidding documents.

Moved by: _____ Seconded by: _____

ROLL CALL:

___ Vorva, ___ Clinton, ___ Curmi, ___ Dempsey, ___ Doroshewitz, ___ Heise, ___ Heitman



August 10, 2020

Mr. Patrick Fellrath, PE
Director of Public Services
Charter Township of Plymouth
9955 N. Haggerty Road Plymouth,
Michigan 48170

Re: **Recommendation for Award**
Emergency/As-Needed Water Main Repair Services Contract
SDA Project No.: Job No PL20006

Dear Mr. Fellrath:

On June 25th, 2020 at 2:00 p.m., construction bids were opened and publicly read at the Plymouth Township Offices for the above referenced contract. The project includes on-call water main and water service repairs as needed.

The Township Clerk's office received four (4) sealed bids for this project. The four bidders were considered to be responsive having submitted a bid compliant with all requirements. The apparent low bidder, Superior Excavating, Inc., submitted a total bid of \$30,459.10 (total for one unit of each item requested in the bid). Following the bid opening, Spalding DeDecker reviewed all the bids received, verified the calculations, and prepared the bid tabulation for the project (attached). Given that the bid total is comprised of unit prices, Spalding put together two (2) sample project scenarios for emergency water system repairs attached in the bid sheet. For both water system repair sample projects, Superior Excavating had the lowest total project amount, \$15,380 and \$11,030 for example project 1 and 2, respectively. Based on a review of experience and references provided, Spalding DeDecker finds that Superior Excavating is qualified and prepared to perform the required construction.

It is our recommendation that the project be awarded to the low bidder, Superior Excavating, for the Emergency Water Main Contract with the unit prices as listed in the attached bid tab. Upon award by the Township Board, our office will coordinate the completion of the Contract Agreement, Bonds, and Insurance information with Superior Excavating.

Very Truly Yours,
SPALDING DEDECKER

Jeremy Schrot, PE
Director of Public Engineering

Encl: Bid Tabulation

BID TABULATION - Emergency Watermain Repair
PLYMOUTH TOWNSHIP

4 Bids received, opened 06/25/20

Project No. PL20006

By: ABD

Reviewed: SP

					BIDIGARE		CI		DMC		SUPERIOR	
No	REF SPEC	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)
1	2.02	Mobilization, M-F 8:00 am to 4:30 pm	1	EA	\$1,000.00	1,000.00	\$1,500.00	1,500.00	\$3,500.00	3,500.00	\$1,500.00	1,500.00
2	2.02	Mobilization, M-F after 4:30 pm, weekends, holidays	1	EA	\$1,500.00	1,500.00	\$3,500.00	3,500.00	\$4,000.00	4,000.00	\$2,000.00	2,000.00
3	2.02	Traffic Control	1	EA	\$250.00	250.00	\$2,500.00	2,500.00	\$3,500.00	3,500.00	\$500.00	500.00
4	30.13	Silt Fence	1	LF	\$3.00	3.00	\$5.00	5.00	\$4.50	4.50	\$5.00	5.00
5	30.14	Water Tap, 3/4 Inch	1	EA	\$700.00	700.00	\$1,250.00	1,250.00	\$700.00	700.00	\$1,500.00	1,500.00
6	30.15	Water Tap, 1 Inch	1	EA	\$750.00	750.00	\$1,300.00	1,300.00	\$900.00	900.00	\$1,550.00	1,550.00
7	30.15	Water Tap, 1-1/2 Inch	1	EA	\$1,000.00	1,000.00	\$1,800.00	1,800.00	\$1,200.00	1,200.00	\$1,600.00	1,600.00
8	30.15	Water Tap, 2 Inch	1	EA	\$1,250.00	1,250.00	\$2,000.00	2,000.00	\$1,400.00	1,400.00	\$1,650.00	1,650.00
9	30.16	Water Service, 3/4 Inch	1	LF	\$40.00	40.00	\$75.00	75.00	\$25.00	25.00	\$40.00	40.00
10	30.16	Water Service, 1 Inch	1	LF	\$45.00	45.00	\$125.00	125.00	\$30.00	30.00	\$45.00	45.00
11	30.16	Water Service, 1-1/2 Inch	1	LF	\$50.00	50.00	\$150.00	150.00	\$50.00	50.00	\$50.00	50.00
12	30.16	Water Service, 2 Inch	1	LF	\$55.00	55.00	\$175.00	175.00	\$60.00	60.00	\$60.00	60.00
13	30.17	Directional Drilling of Water Service	1	LF	\$95.00	95.00	\$175.00	175.00	\$160.00	160.00	\$80.00	80.00
14	30.18	Brass Curb Stop, 3/4 Inch	1	EA	\$500.00	500.00	\$1,200.00	1,200.00	\$400.00	400.00	\$400.00	400.00
15	30.18	Brass Curb Stop, 1 Inch	1	EA	\$500.00	500.00	\$1,300.00	1,300.00	\$600.00	600.00	\$450.00	450.00
16	30.18	Brass Curb Stop, 1-1/2 Inch	1	EA	\$750.00	750.00	\$1,400.00	1,400.00	\$1,600.00	1,600.00	\$600.00	600.00
17	30.18	Brass Curb Stop, 2 Inch	1	EA	\$1,000.00	1,000.00	\$2,000.00	2,000.00	\$2,000.00	2,000.00	\$700.00	700.00
18	30.19	Stop Box Repair	1	EA	\$675.00	675.00	\$1,000.00	1,000.00	\$700.00	700.00	\$900.00	900.00
19	30.20	Connect to Existing 4 Inch Water Main	1	EA	\$1,000.00	1,000.00	\$2,800.00	2,800.00	\$3,825.00	3,825.00	\$1,000.00	1,000.00
20	30.20	Connect to Existing 6 Inch Water Main	1	EA	\$1,000.00	1,000.00	\$3,000.00	3,000.00	\$5,000.00	5,000.00	\$1,100.00	1,100.00
21	30.20	Connect to Existing 8 Inch Water Main	1	EA	\$1,500.00	1,500.00	\$3,200.00	3,200.00	\$6,400.00	6,400.00	\$1,200.00	1,200.00
22	30.20	Connect to Existing 12 Inch Water Main	1	EA	\$1,700.00	1,700.00	\$3,500.00	3,500.00	\$8,700.00	8,700.00	\$1,500.00	1,500.00
23	30.20	Connect to Existing 16 Inch Water Main	1	EA	\$2,000.00	2,000.00	\$5,500.00	5,500.00	\$12,000.00	12,000.00	\$2,500.00	2,500.00
24	30.20	Connect to Existing 24 Inch Water Main	1	EA	\$2,500.00	2,500.00	\$15,000.00	15,000.00	\$17,000.00	17,000.00	\$6,000.00	6,000.00
25	30.21	4 Inch CL 54 Ductile Iron Water Main	1	LF	\$1,200.00	1,200.00	\$120.00	120.00	\$90.00	90.00	\$250.00	250.00
28	30.21	6 Inch CL 54 Ductile Iron Water Main	1	LF	\$1,200.00	1,200.00	\$130.00	130.00	\$150.00	150.00	\$270.00	270.00
27	30.21	8 Inch CL 54 Ductile Iron Water Main	1	LF	\$1,200.00	1,200.00	\$145.00	145.00	\$165.00	165.00	\$300.00	300.00
28	30.21	12 Inch CL 54 Ductile Iron Water Main	1	LF	\$1,500.00	1,500.00	\$175.00	175.00	\$190.00	190.00	\$350.00	350.00
29	30.21	16 Inch CL 54 Ductile Iron Water Main	1	LF	\$2,000.00	2,000.00	\$200.00	200.00	\$220.00	220.00	\$600.00	600.00
30	30.21	24 Inch CL 54 Ductile Iron Water Main	1	LF	\$4,500.00	4,500.00	\$400.00	400.00	\$350.00	350.00	\$800.00	800.00
31	30.22	Excavation, Additional Depth, 7 to 12 Feet Deep	1	LF	\$2,000.00	2,000.00	\$165.00	165.00	\$25.00	25.00	\$400.00	400.00
32	30.23	Sprinkler Repair, Labor	1	HR	\$68.00	68.00	\$125.00	125.00	\$65.00	65.00	\$150.00	150.00
33	30.24	Sprinkler Repair Materials, Percent Cost Plus	1	%	15.00%	0.15	15.00%	0.15	20.00%	0.20	10.00%	0.10
34	30.25	Pavement, Remove	1	SY	\$30.00	30.00	\$125.00	125.00	\$27.00	27.00	\$20.00	20.00
35	30.26	Aggregate Base, 21AA	1	CY	\$40.00	40.00	\$75.00	75.00	\$35.00	35.00	\$60.00	60.00
36	30.27	HMA, LVSP	1	TON	\$300.00	300.00	\$650.00	650.00	\$300.00	300.00	\$300.00	300.00
37	30.28	Concrete Pavement, Non-Reinforced	1	CY	\$500.00	500.00	\$75.00	75.00	\$285.00	285.00	\$300.00	300.00
38	30.29	Restoration - Seed	1	SY	\$20.00	20.00	\$35.00	35.00	\$15.00	15.00	\$12.00	12.00
39	30.30	Restoration - Sod	1	SY	\$25.00	25.00	\$100.00	100.00	\$25.00	25.00	\$17.00	17.00
SUBTOTAL						\$ 34,446.15		\$ 56,975.15		\$ 75,198.70		\$ 30,459.10

EXAMPLE REPAIR PROJECTS
PLYMOUTH TOWNSHIP
PL20006

EXAMPLE PROJECT 1 - WATER SYSTEM REPAIR					BIDIGARE		CI		DMC		SUPERIOR	
No	REF SPEC	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)
1	2.02	Mobilization, M-F 8:00 am to 4:30 pm	1	EA	\$1,000.00	1,000.00	\$1,500.00	1,500.00	\$3,000.00	3,000.00	\$1,500.00	1,500.00
3	2.02	Traffic Control	1	EA	\$250.00	250.00	\$2,500.00	2,500.00	\$3,500.00	3,500.00	\$500.00	500.00
22	30.20	Connect to Existing 12 Inch Water Main	2	EA	\$1,700.00	3,400.00	\$3,500.00	7,000.00	\$8,700.00	17,400.00	\$1,500.00	3,000.00
28	30.21	12 Inch CL 54 Ductile Iron Water Main	24	LF	\$1,500.00	36,000.00	\$175.00	4,200.00	\$190.00	4,560.00	\$350.00	8,400.00
34	30.25	Pavement, Remove	9	SY	\$30.00	270.00	\$125.00	1,125.00	\$27.00	243.00	\$20.00	180.00
35	30.26	Aggregate Base, 21AA	5	CY	\$40.00	200.00	\$75.00	375.00	\$35.00	175.00	\$60.00	300.00
37	30.28	Concrete Pavement, Non-Reinforced	5	CY	\$500.00	2,500.00	\$75.00	375.00	\$285.00	1,425.00	\$300.00	1,500.00
SUBTOTAL						\$ 43,620.00		\$ 17,075.00		\$ 30,303.00		\$ 15,380.00

EXAMPLE PROJECT 2 - WATER SYSTEM REPAIR					BIDIGARE		CI		DMC		SUPERIOR	
No	REF SPEC	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)
2	2.02	Mobilization, M-F after 4:30 pm, weekends, holidays	1	EA	\$1,500.00	1,500.00	\$3,500.00	3,500.00	\$4,000.00	4,000.00	\$2,000.00	2,000.00
3	2.02	Traffic Control	1	EA	\$250.00	250.00	\$2,500.00	2,500.00	\$3,500.00	3,500.00	\$500.00	500.00
4	30.13	Silt Fence	50	LF	\$3.00	150.00	\$5.00	250.00	\$4.50	225.00	\$5.00	250.00
5	30.14	Water Tap, 3/4 Inch	2	EA	\$700.00	1,400.00	\$1,250.00	2,500.00	\$700.00	1,400.00	\$1,500.00	3,000.00
9	30.16	Water Service, 3/4 Inch	20	LF	\$40.00	800.00	\$75.00	1,500.00	\$25.00	500.00	\$40.00	800.00
13	30.17	Directional Drilling of Water Service	20	LF	\$95.00	1,900.00	\$175.00	3,500.00	\$160.00	3,200.00	\$80.00	1,600.00
14	30.18	Brass Curb Stop, 3/4 Inch	2	EA	\$500.00	1,000.00	\$1,200.00	2,400.00	\$400.00	800.00	\$400.00	800.00
31	30.22	Excavation, Additional Depth, 7 to 12 Feet Deep	3	LF	\$2,000.00	6,000.00	\$165.00	495.00	\$25.00	75.00	\$400.00	1,200.00
32	30.23	Sprinkler Repair, Labor	1	HR	\$68.00	68.00	\$125.00	125.00	\$65.00	65.00	\$150.00	150.00
33	30.24	Sprinkler Repair Materials, Percent Cost Plus	200	%	15.00%	30.00	15.00%	30.00	20.00%	40.00	10.00%	20.00
34	30.25	Pavement, Remove	6	SY	\$30.00	180.00	\$125.00	750.00	\$27.00	162.00	\$20.00	120.00
35	30.26	Aggregate Base, 21AA	2	CY	\$40.00	80.00	\$75.00	150.00	\$35.00	70.00	\$60.00	120.00
38	30.27	HMA, LVSP	1.0	TON	\$300.00	300.00	\$650.00	650.00	\$300.00	300.00	\$300.00	300.00
39	30.30	Restoration - Sod	10	SY	\$25.00	250.00	\$100.00	1,000.00	\$25.00	250.00	\$17.00	170.00
SUBTOTAL						\$ 13,908.00		\$ 19,350.00		\$ 14,587.00		\$ 11,030.00



TOWNSHIP OF PLYMOUTH BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: Northville Rd PRV Station Rehabilitation: Design Phase

PRESENTER: Patrick J. Fellrath, P.E., Director of Public Services
Bradley Shepler, P.E., HRC, Inc.

BACKGROUND:

The Northville Rd. pressure reducing valves (PRVs) are a major component of the Township's water distribution system. The valves have reached the end of their useful lives and require replacement. Replacement of the PRVs has been selected as a FY2020 Water CIP project.

Attached is a proposal from HRC to perform design engineering services for the project. The proposal is based on the findings from the preliminary engineering tasks authorized in late April 2020.

On April 28, 2020, the Board authorized HRC, Inc., to perform preliminary engineering for the project. Preliminary engineering included a facility inspection/condition assessment, hydraulic analysis, and constructability review of the proposed improvements.

The proposed design phase includes preparing plans and specifications, soliciting bids and recommending a bid award for construction, expected Spring 2021. Due to the critical nature of the PRVs and changes in PRV technology since original installation, vendor meetings will be required as part of the design phase.

Upon completion of design, a construction award recommendation along with a proposal for construction engineering services by HRC will be presented to the Board for review and approval.

ACTION REQUESTED: Approve

BUDGET/ACCOUNT NUMBER: \$34,000 / FY2020 CIP

MODEL RESOLUTION: I move to approve the attached proposal from HRC for an amount not to exceed \$34,000 for design engineering services for the Rehabilitation of the Northville Rd. PRV Station.

Attachment: Proposal

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION TO AUTHORIZE DESIGN ENGINEERING FOR NORTHVILLE RD
PRESSURE REDUCING VALVES STATION REHABILITATION**

RESOLUTION # 2020-08-25-80

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the 'board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, MI on August 25, 2020, the following resolution was offered:

WHEREAS, the Northville Rd Pressure Reducing Valves (PRVs) are a major component of the township's water distribution system; and

WHEREAS, the valves have reached the end of their useful lives and require replacement; and

WHEREAS, replacement of the PRVs has been selected as a FY2020 Water CIP project; and

WHEREAS, as described in the attached proposal, design engineering services include several items including vendor meetings, preparation of plans and specifications, and solicitation of bids; and

WHEREAS, upon completion of design engineering, a construction contract award recommendation will be prepared.

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2020-08-25-80** authorizing the attached proposal from Hubbell, Roth, & Clark, Inc for an amount not to exceed \$34,000 for design engineering services for the rehabilitation of the Northville Rd PRV Station.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Vorva, ___Clinton, ___Curmi, ___Dempsey, ___Doroshewitz, ___Heise, ___Heitman



MAILING: PO Box 824
Bloomfield Hills, MI 48303-0824
SHIPPING: 555 Hulet Drive
Bloomfield Hills, MI 48302-0360
PHONE: 248-454-6300
WEBSITE: hrcengr.com

August 17, 2020

Charter Township of Plymouth
9955 Haggerty Road
Plymouth Township, MI 48170

Attn: Mr. Patrick Fellrath, P.E., Director of Public Services

Re: Northville Road PRV Facility
Proposal for Design Engineering Services

HRC Job No. 20190901

Dear Mr. Fellrath:

Thank you for the opportunity to allow Hubbell, Roth & Clark, Inc. (HRC) to submit this proposal to provide Design Engineering Services for the subject project. We understand that the Township would like to replace both the primary and secondary 8-inch pressure reducing valves (PRVs) located in the Northville Road PRV station. HRC recently performed a facility inspections and condition assessments for the below grade PRV facility and the above-grade access structure and completed preliminary engineering tasks to define anticipated flows through the PRVs, review the constructability of the proposed improvements and isolation of the facility and evaluate potential operational configurations for the PRVs. Our proposal is based on our discussions of this project scope, our condition assessment of the PRV facility, the completed preliminary engineering tasks, budgetary estimates, and our past experience working with Plymouth Township.

After discussions with Township staff, HRC feels it would be prudent to further analyze the potential operational configurations for the new PRVs and evaluate the potential PRV suppliers and product representatives. As such, HRC is proposing to conduct Vendor Review meetings for up to three (3) PRV product representatives to review their recommendations on PRV sizing and configuration and evaluate their product, serviceability, maintenance and customer service. Based on these results, HRC would recommend pre-purchasing the PRVs that best fit the Townships needs and goals for future operation and maintenance.

HRC's scope of services and fee for the above-mentioned services can be generally described as follows:

Design Engineering Services

Design services shall commence upon authorization as the Preliminary Engineering tasks are nearing completion.

1) Vendor Meetings

HRC will coordinate up to three (3) meetings with prospective PRV suppliers. The meetings will entail an face-to-face discussion of their products, the flow profiles for this specific PRV station and operational recommendations, a review of maintenance strategies and hands-on review of the valve and a site visit to a local PRV facility that utilizes the recommended PRV configuration. From these meetings, HRC and the Township will develop a preferred operational configuration and sizing to direct the design and select a PRV supplier. The Township should then consider ordering the preferred PRVs to avoid sales tax and potential long lead times.

2) Topographical Survey

HRC proposes to conduct selective topographic survey of the site to develop a site plan for the subject project using 3D scanning and point cloud modeling. HRC uses laser scanning technology and services to locate infrastructure inside and outside of existing structures and develop 3D locations and existing drawings quickly and accurately. Point cloud models are then used seamlessly for design drawings of new equipment. Due to the size of the project site, this

Delhi Township 2101 Aurelius Rd. Suite 2A Holt, MI 48842 517-694-7760	Detroit 535 Griswold St. Buhl Building, Ste 1650 Detroit, MI 48226 313-965-3330	Grand Rapids 1925 Breton Road SE Suite 100 Grand Rapids, MI 49506 616-454-4286	Howell 105 W. Grand River Howell, MI 48843 517-552-9199	Jackson 401 S. Mechanic St. Suite B Jackson, MI 49201 517-292-1295	Kalamazoo 834 King Highway Suite 107 Kalamazoo, MI 49001 269-665-2005	Lansing 215 S. Washington SQ Suite D Lansing, MI 48933 517-292-1488
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service will be a low-cost item that will provide significant benefit during design. HRC will review existing site drawings and work with Township staff to mark out all site utilities prior to the survey to best locate any potential conflicts.

3) Schematic Design & Meeting

HRC will prepare 60% construction drawings for Township review. The schematic design drawings will show design intent, dimension and preliminary details based on the discussion from the preliminary engineering and any subsequent correspondence. Subsequently, HRC will set a meeting to review the Township's comments if warranted.

4) Permitting

HRC will prepare all permit applications for Township signature and provide supplemental information needed for the submittal package. HRC is familiar with EGLE preferences for drawing content and appearance and will request the streamlined permitting process reserved for smaller design and rehabilitation projects. Upon Township approval, drawings will be forwarded to EGLE for Water Supply System Permit (Part 399) review.

5) Final Design and Construction Details

HRC will submit final construction drawings and details for Township review. Comments received from the 60% schematic design review will be incorporated into this drawing set. Standard project detail sheets will be reviewed and coordinated with Township staff for operations, maintenance, and constructability. Comments from this review will be added to the drawings prior to bidding.

6) Construction Specifications

HRC will prepare the contractual and administrative specifications to define the general requirements for work as desired by the Township. HRC will also prepare material and equipment technical specifications specific to the equipment selections made during the preliminary design and the applicable construction methods anticipated for construction. HRC will provide draft copies of these specifications for Township review with the final design and construction details to review the drawings and specifications together, prior to producing the bidding documents. The specifications will be utilized along with the construction drawings to solicit bids for the proposed work.

7) Construction Cost Estimate

HRC will prepare and update an Engineer's Opinion of Probable Cost at 60% Schematic Design and at Final Design.

8) Advertising and Bidding Services

HRC will review any prepare a final set of construction drawings, specifications and special provisions developed for the project to produce a set of Contract Documents acceptable for bidding purposes. HRC will deliver a reproducible set of the Contract Documents to the Township in PDF format and two (2) hard copies of the drawings and specifications for use in the office during the bidding period. HRC will coordinate, facilitate, and memorialize a Pre-Bid meeting and will assist the Township with the issuance of Addenda in response to questions arising at the Pre-Bid meeting and during the bidding period

9) Bid Evaluation and Contract Award

HRC will assist the Township with review of the bids and the bidders' qualifications in accordance with the procurement requirements. HRC will prepare a tabulation of the bids and present a formal evaluation for recommendation of Contract Award.



Mr. Patrick Fellrath, P.E.
August 17, 2020
HRC Job Number 20190901
Page 3 of 4

Construction Engineering Services

A proposal for Construction Engineering Services has not been provided at this time. Should the Township desire, HRC would be pleased to provide a detailed proposal for Construction Engineering Services at the time of Contract award.

In addition, HRC has a full-service materials testing laboratory that can provide material quality control on the project so that the Township does not need to sub-contract those services. HRC can provide an additional proposal for this work at the Township's request.

Proposed Schedule & Cost Estimates

Schedule & Project Team

It is anticipated that the construction drawings and specifications would be completed within 3 to 4 months of authorization. Based on August Board approval, the following proposed project schedule is anticipated:

Authorization to Proceed	August 25, 2020
Design Engineering	August 26, 2020 to December 18, 2020
Procurement	January 5, 2021 to January 28, 2021
Contract Award	February 9, 2021
Construction Begins	March 1, 2021
Substantial Completion	June 1, 2021
Final Completion	June 30, 2021

Mike MacDonald, P.E., Vice President, will be the Principal-In-Charge and Bradley Shepler, P.E., CCCA, LEED AP, Associate, will be the Project Manager. Mr. Shepler will be supported directly by Nicole Selais, P.E., Project Analyst, Rich Nacey, P.E., Associate (Structural Dept. Head) and our other experienced Electrical, Structural, Civil and Process staff.

Proposed Fees

The preliminary opinion of probable construction cost for the underground vault and PRV work as prepared by HRC in January of 2020 as part of the Facility Inspection report was \$189,500 and included replacement of the valving and piping internal to the facility, updates to the electrical system, replacement of the control panel and minor structural rehabilitation. This construction cost was based on our recent experience with similar projects and our discussions with contractors and suppliers familiar with this type of work. Based on this scope of work, we estimate the cost for the Design Engineering Services to be \$34,000 which would not be exceed without prior authorization.

A breakdown of the items of work within each task of the Project along with our estimated hours and associated fees is provided on the attached Table 1. Invoicing for this work will be on a basis of direct payroll plus a multiplier of 1.9. Invoices will be submitted on a monthly basis as the work progresses.



Mr. Patrick Fellrath, P.E.
August 17, 2020
HRC Job Number 20190901
Page 4 of 4

We thank you in advance for considering us for this engineering work. If this Proposal meets your needs, please sign below and return one copy to us. This will serve as the Engineering Contract Agreement, and authorization to proceed. We look forward to hearing from you soon. Should you have any questions, or require additional information, please contact this office at (248) 454-6300.

If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

A handwritten signature in blue ink, reading 'Bradley Shepler', is written over the printed name.

Bradley Shepler, P.E., CCCA, LEED AP
Associate

Enclosure

pc: HRC; M. MacDonald, R. Nacey, N. Selais, File

Accepted By:

Signature: _____

Written Name: _____

Title: _____

Dated: _____

STAFF HOUR PROJECTION
NORTHVILLE ROAD PRV FACILITY
PROFESSIONAL DESIGN SERVICES
 Charter Township of Plymouth

TABLE 1
ESTIMATED HOURS AND FEES

HRC Job No. 20190901

TASK DESCRIPTION	ESTIMATED STAFF HOURS									
	Hubbell, Roth & Clark, Inc.									
	Principal Hours	Associate/ Project Manager Hours	Project Analyst Hours	Structural Engineer Hours	Electrical Engineer Hours	Staff Engineer Hours	Designer Hours	Owner's Representative Hours	2-Person Survey Crew Hours	TOTAL Hours
1. - DESIGN SERVICES										
1. Vendor Meetings	2	12	12	0	0	0	0	0	0	26
2. Topographic Survey/Laser Scanning	0	0	8	0	0	0	0	0	16	24
3. Schematic Design	1	4	8	4	14	20	36	0	0	87
4. Permitting	2	2	2	0	0	8	0	0	0	14
4. Final Design and Construction Details	2	8	8	4	12	24	24	0	0	82
5. Construction Specifications	1	8	8	2	8	4	0	0	0	31
6. Construction Cost Estimates	0	2	4	2	4	4	0	0	0	16
7. Advertising and Bidding Services	1	4	4	0	0	4	0	0	0	13
8. Bid Evaluation and Contract Award	1	4	4	0	0	1	0	0	0	10
TOTAL ESTIMATED HOURS	10	44	58	12	38	65	60	0	16	303

DESIGN ENGINEERING SERVICES

Personnel	Hours	Rate	Total
Principal	10	NO CHARGE	
Associate/Project Manager	44	\$146.45	\$6,440.00
Project Analyst	58	\$123.83	\$7,180.00
Structural Engineer	12	\$121.22	\$1,450.00
Electrical Engineer	38	\$111.36	\$4,230.00
Staff Engineer	65	\$100.05	\$6,500.00
Designer	60	\$87.00	\$5,220.00
2-Person Survey Crew	16	\$185.60	\$2,970.00
Total Estimated Fee			\$34,000.00



CHARTER TOWNSHIP OF PLYMOUTH

REQUEST FOR BOARD CONSIDERATION

MEETING DATE: August 25, 2020

ITEM: 2020-21 Water & Sewer Usage Rates

PRESENTER: Mark Clinton, Treasurer

BACKGROUND:

The Charter Township of Plymouth's Water and Sewer Ordinance provides that pertinent fees and rates for connection to, use, access, construction and service by the Township Water & Sewer System shall be set by township board resolution.

Current water & sewer usage rates are as follows:

Water - \$5.60 per 1,000 gallons

Sewer - \$4.60 per 1,000 gallons

Total - \$10.20 per 1,000 gallons

On October 1, 2020, the Great Lakes Water Authority (GLWA) will raise the wholesale water rate it charges Plymouth Township by 7.1%. This increase was delayed from the normal July 1 cycle due to COVID-19. We will also see an increase in monthly WTUA charges as the cost benefits resulting from the move from Wayne County to YCUA have been fully achieved and WTUA continues to invest in their infrastructure.

A recommended 4% increase based upon the attached analysis in both water and sewer rates will impact the average resident's water bill by 2.8% or \$26 per year.

ATTACHMENTS:

2020-21 Water & Sewer Rate Adjustment Analysis

PROPOSED RESOLUTION

I move to approve resolution 2020-08-25-81 which, effective October 1, 2020, increases the water rate from \$5.60 to \$5.82 and the sewage disposal rate from \$4.60 to \$4.79 per 1,000 gallons of water.

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

RESOLUTION # 2020-08-25-81

WATER & SEWER RATE ADJUSTMENT

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the "Board"), held at Township Hall located at 9955 N. Haggerty Road, Plymouth, Michigan on August 25, 2020, the following resolution was offered:

WHEREAS, it is the intention of the Board to comply with the Water & Sewer Ordinance which requires that all pertinent fees and rates for connection to, use, access, construction and service by the Township Water and Sewer System be set by board resolution; and

WHEREAS, effective October 1, 2020, the Great Lakes Water Authority will increase the wholesale water rates charged to Plymouth Township by 7.1% per 1,000 gallons; and

WHEREAS, to continue to cover annual operating expenses of the Water & Sewer Department while setting aside money for future capital improvements, a 4% increase in both water and sewage usage rates is justified and necessary;

NOW, THEREFORE BE IT RESOLVED that, effective October 1, 2020, the water rate be increased from \$5.60 to \$5.82 and the sewage disposal rate be increased from \$4.60 to \$4.79 per 1,000 gallons of water.

Present: [Curmi, Clinton, Dempsey, Doroshewitz, Heise, Heitman, Vorva]

Moved by:

Supported by:

Roll Call Vote

Ayes:

Nays:

Adopted: Regular Meeting of the Board of Trustees on August 25, 2020

Jerry Vorva, Clerk, Charter Township of Plymouth

Certification

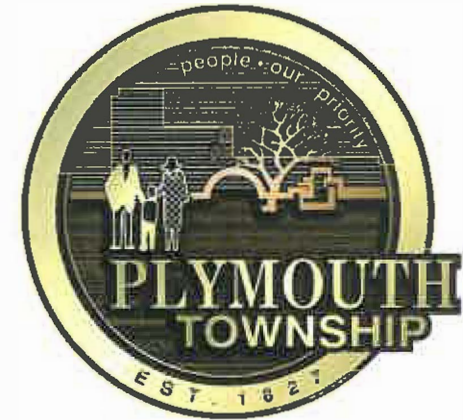
STATE OF MICHIGAN)
)
COUNTY OF WAYNE)

I hereby certify that the foregoing is a true copy of the above Resolution, the original of which is on file in my office.

Jerry Vorva, Clerk
Charter Township of Plymouth

Date _____

Resolution: 2020-08-25-81



2020 – 21 Water & Sewer Rate Adjustment Analysis

Recommendation

- Increase W&S Rates by 4.0%
- Rates Effective 10/1/20 thru 6/30/21
- Water Bill Impact (%) per Average Resident = 2.8%
- Water Bill Impact (\$) per Average Resident = \$26/yr

1st Rate Increase Since July, 2017

2020-21 Rates

2020-21 GLWA Rates

- Rates Effective Oct 1, 2020 (Delayed due to COVID)
- GLWA Costs are 60% fixed – 40% variable
- Fixed Cost = \$229,900 per month
- Variable Cost = \$1.512 per gallon (000s)
- Estimated Usage per GLWA = 1,216,156 gallons
- Total Cost = \$3.78 per gallon (000s) *

* Assuming Estimated Usage is Accurate

Historical GLWA Rates Change

	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Fixed (per month)	\$194,300	\$205,200	\$214,100	\$222,900	\$228,900	\$229,900
Variable (per gallon 000s)	\$1.259	\$1.330	\$1.348	\$1.381	\$1.412	\$1.512
Blended (per gallon 000s)	\$3.094	\$3.267	\$3.370	\$3.452	\$3.530	\$3.780
Change		+5.6%	+3.2%	+2.4%	+2.3%	+7.1%

Historical WTUA Rates Change

	2016-17	2017-18	2018-19	2019-20	2020-21
Sewage Disposal	\$3,945,000	\$3,160,000	\$2,403,000	\$1,910,000	\$2,450,000
WTUA Debt	\$3,190,000	\$3,208,000	\$1,777,000	\$1,524,000	\$1,433,000
WTUA Capital Fund			\$221,000	\$221,000	\$221,000
Total	\$7,135,000	\$6,368,000	\$4,401,000	\$3,665,000	\$4,104,000
Change		-10.7%	-30.9%	-16.7%	+12.0%

Water & Sewer Charges Need to Cover

- 1) Operating Costs
- 2) Debt & Capital
- 3) Future Infrastructure Requirements

Breakeven Rate Analysis

	<u>Actual 2016-17</u>	<u>Actual 2017-18</u>	<u>Actual 2018-19</u>	<u>Actual 2019-20</u>	<u>Estimated 2020-21</u>	
Sources of Revenue						
Water Charges	\$4,761,100	\$5,131,672	\$4,858,608	\$5,851,542	\$6,728,748	} 4.0% Increase
Sewage Charges	\$7,409,647	\$7,364,818	\$6,749,456	\$5,608,412	\$5,128,375	
WTUA Capital Charges	\$1,422,099	\$1,433,714	\$1,446,216	\$1,429,982	\$1,422,000	
Benefit Fees	\$1,661,699	\$745,141	\$298,080	\$857,089	\$550,000	
Miscellaneous	\$242,462	\$433,377	\$274,246	\$399,506	\$359,000	
Total Revenue	<u>\$15,497,007</u>	<u>\$15,108,722</u>	<u>\$13,626,606</u>	<u>\$14,146,531</u>	<u>\$14,188,123</u>	
Operating Expenses						
Cost of Water	\$4,211,421	\$4,255,868	\$4,297,753	\$4,353,295	\$4,597,800	
Cost of Sewage Treatment	\$3,742,300	\$3,160,803	\$2,403,125	\$1,910,343	\$2,449,904	
Salaries and Fringe Benefits	\$1,322,085	\$1,384,215	\$1,363,820	\$1,465,120	\$1,437,200	
Miscellaneous	\$589,107	\$374,814	\$749,942	\$727,957	\$1,013,300	
Debt and Capital						
Principal & Interest on WTUA debt	\$3,190,000	\$3,208,219	\$1,776,537	\$1,524,269	\$1,432,899	
WTUA CIP			\$220,556	\$220,556	\$220,556	
Principal & Interest on PT debt	\$224,228	\$266,964	\$263,060	\$167,668	\$208,153	
Investment						
Depreciation (WTUA)	\$1,356,680	\$1,304,617	\$1,150,479	\$1,184,560	\$1,200,000	
Depreciation (PT)	\$1,284,555	\$1,359,408	\$1,370,194	\$1,346,597	\$1,370,200	
Purchase of Capital Assets	\$229,114	\$127,745	\$105,410	\$15,000	\$180,000	
Total Revenue Requirements	<u>\$16,149,490</u>	<u>\$15,442,653</u>	<u>\$13,700,876</u>	<u>\$12,915,365</u>	<u>\$14,110,012</u>	
Surplus	- \$652,483	- \$333,931	- \$74,270	\$1,231,166	\$78,111	

Breakeven Rate Analysis

(Usage Scenarios)



<u>GLWA Water Rates & Usage</u>	<u>90%</u>	<u>95%</u>	<u>100%</u>	<u>105%</u>	<u>110%</u>
Volume Assumed to be Sold (in '000 gals)	1,094,540	1,155,348	1,216,156	1,276,964	1,337,772
Wholesale Rate to be Charged (per '000 gals) \$	\$ 4.033	\$ 3.900	\$ 3.780	\$ 3.673	\$ 3.574
Sources of Revenue					
Water Charges	\$6,055,873	\$6,392,311	\$6,728,748	\$7,065,185	\$7,401,623
Sewage Charges	\$4,734,563	\$4,993,650	\$5,128,375	\$5,511,824	\$5,770,910
WTUA Capital Charges	\$1,422,000	\$1,422,000	\$1,422,000	\$1,422,000	\$1,422,000
Benefit Fees	\$550,000	\$550,000	\$550,000	\$550,000	\$550,000
Miscellaneous	\$359,000	\$359,000	\$359,000	\$359,000	\$359,000
Total Revenue	<u>\$13,121,436</u>	<u>\$13,716,960</u>	<u>\$14,188,123</u>	<u>\$14,908,009</u>	<u>\$15,503,533</u>
Operating Expenses					
Cost of Water	\$4,413,900	\$4,505,850	\$4,597,800	\$4,689,750	\$4,781,700
Cost of Sewage Treatment	\$2,094,668	\$2,327,409	\$2,449,904	\$2,572,399	\$2,694,895
Salaries and Fringe Benefits	\$1,437,200	\$1,437,200	\$1,437,200	\$1,437,200	\$1,437,200
Miscellaneous	\$1,013,300	\$1,013,300	\$1,013,300	\$1,013,300	\$1,013,300
Debt and Capital					
Principal & Interest on WTUA debt	\$1,432,899	\$1,432,899	\$1,432,899	\$1,432,899	\$1,432,899
WTUA CIP	\$220,556	\$220,556	\$220,556	\$220,556	\$220,556
Principal & Interest on PT debt	\$208,153	\$208,153	\$208,153	\$208,153	\$208,153
Investment					
Depreciation (WTUA)	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000
Depreciation (PT)	\$1,370,200	\$1,370,200	\$1,370,200	\$1,370,200	\$1,370,200
Purchase of Capital Assets	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000
Total Revenue Requirements	<u>\$13,570,876</u>	<u>\$13,895,567</u>	<u>\$14,110,012</u>	<u>\$14,324,457</u>	<u>\$14,538,903</u>
Surplus	-\$449,440	-\$178,607	\$78,111	\$583,551	\$964,630

Average Annual Residential Water Bill

(July 1, 2019 – June 30, 2020)

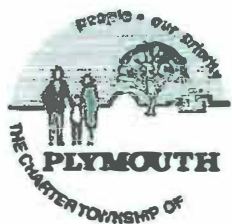
	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>	<u>Total</u>	<u>Average</u>
Water	\$1,135,758	\$821,767	\$1,263,012	\$3,220,537	\$372
Sewer	\$842,864	\$713,680	\$908,112	\$2,464,656	\$284
Solid Waste	\$500,404	\$443,178	\$521,478	\$1,465,060	\$169
WTUA	\$278,461	\$194,017	\$278,233	\$750,711	\$87
Surcharge	<u>\$63,767</u>	<u>\$55,350</u>	<u>\$65,191</u>	<u>\$184,308</u>	<u>\$21</u>
Total	\$2,821,254	\$2,227,992	\$3,036,026	\$8,085,272	\$933

Total # Active Residences = 8,668

Impact of a Water Increase on Average Annual Residential Bill

	<u>Current</u>	<u>3.0%</u>	<u>3.5%</u>	<u>4.0%</u>	<u>4.5%</u>	<u>5.0%</u>	<u>5.5%</u>	<u>6.0%</u>	<u>6.5%</u>	<u>7.0%</u>
Water	\$372	\$383	\$385	\$387	\$389	\$391	\$392	\$394	\$396	\$398
Sewer	\$284	\$293	\$294	\$295	\$297	\$298	\$300	\$301	\$302	\$304
Solid Waste	\$169	\$169	\$169	\$169	\$169	\$169	\$169	\$169	\$169	\$169
WTUA	\$87	\$87	\$87	\$87	\$87	\$87	\$87	\$87	\$87	\$87
Surcharge	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>	<u>\$21</u>
Total	\$933	\$952	\$956	\$959	\$962	\$965	\$969	\$972	\$975	\$979
% Impact on Total Bill		2.1%	2.4%	2.8%	3.1%	3.5%	3.8%	4.2%	4.5%	4.9%
\$ Impact of Total Bill		\$19	\$23	\$26	\$29	\$32	\$36	\$39	\$42	\$46





CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: Resolution Regarding Salem Springs Development

PRESENTERS: Supervisor Heise

BACKGROUND: The so-called "Salem Springs" development project, located in Salem Township, has received \$20 million in grants from the State of Michigan to construct water and sewer infrastructure. While they had wanted originally to tap into our WTUA system, the developers of Salem Springs must now construct a 10.5 mile sewer line thorough all of Superior Township and part of Ypsilanti Township. Superior has not reviewed the engineering and other impacts for this sewer upon their township as Salem has refused to post security for the professional review, and Superior has also been sued in Washtenaw County Circuit Court by the developers of Salem Springs. Meanwhile, a water line is now being built in the Salem Springs development area bounded by Gottfredson, Joy, and Napier Roads. I would appreciate your support of the attached Resolution reiterating Plymouth Township's opposition to the Salem Springs project given these most recent developments.

PROPOSED MOTION: I move to adopt the attached Resolution regarding the Township's Opposition to the Salem Springs Project in Salem Township, Michigan.

Moved By _____ Seconded By _____

ROLL CALL:

___ Vorva, ___ Curmi, ___ Clinton, ___ Heitman, ___ Doroshewitz, ___ Dempsey, ___ Heise

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES**

RESOLUTION # 2020-08-25-82

**RESOLUTION TO OPPOSE CONSTRUCTION OF SEWER LINE FROM
'SALEM SPRINGS' PROJECT THROUGH SUPERIOR TOWNSHIP**

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the 'Board'), held at Township Hall, 9955 N. Haggerty Road, Plymouth, MI on August 25, 2020, the following resolution was offered:

WHEREAS, the so-called "Salem Springs" development project is located in the Township of Salem, County of Washtenaw, State of Michigan, and;

WHEREAS, the Salem Springs project has received \$20 million in grants from the State of Michigan to construct water and sewer infrastructure for this project, and;

WHEREAS, the developers of the Salem Springs must construct a 10.5 mile sewer line thorough Superior Township and part of Ypsilanti Township in order to service their project, and;

WHEREAS, Superior Township has not reviewed the engineering and other impacts for the sewer upon the township as Salem Township has refused to post security for professional review, and Superior Township has been sued in Washtenaw County Circuit Court by the developers of Salem Springs as a result, and;

WHEREAS, the Charter Township of Plymouth Board of Trustees opposes the Salem Springs project as having a detrimental impact on our residents' quality of life, property values, and its detrimental impact on the environment, road quality, and stormwater management, and poor use of State taxpayer dollars for an ill-conceived, speculative, and wholly unnecessary project,

NOW, THEREFORE BE IT RESOLVED, that the Plymouth Township Board of Trustees supports all regional efforts to oppose construction of the Salem Springs sewer line, and urges the Washtenaw County Board of Commissioners and the State of Michigan to take immediate action to terminate its construction.

FURTHERMORE, that copies of this Resolution be sent to Governor Gretchen Whitmer, the State Directors of EGLE and MDOT, the Board of Trustees of Superior, Salem, and Ypsilanti Townships, the State Representatives and Senators representing these communities, Plymouth Township's State Representative, Senator, and County Commissioner, and the members of the Washtenaw County Board of Commissioners.

Present: [Curmi, Clinton, Dempsey, Doroshewitz, Heise, Heitman, Vorva]

Moved by:

Supported by:

Roll Call Vote

Ayes:

Nays:

Adopted: Regular Meeting of the Board of Trustees on August 25, 2020.

Jerry Vorva, Clerk, Charter Township of Plymouth



CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 25, 2020

ITEM: Non-Union Employee Salary Adjustments

PRESENTER: Supervisor Heise, Clerk Vorva

BACKGROUND: We are requesting a budget amendment and appropriation of no more than \$28,700 for salary/benefit adjustments for our non-union employees and no more than \$9,000 for benefits for an election/clerk employee. The Uniform Budgeting and Accounting Act requires that the Township Board prepare a budget amendment as soon as it is apparent that a deviation from the original budget is necessary and the amount can be determined. That amendment is attached.

PROPOSED MOTION: I move that the Plymouth Township Board of Trustees hereby adopt Resolution #2020-08-25-83 authorizing the Finance Director to appropriate fund balance, amending the 2020 General Fund and Water & Sewer budgets in the attached wages & benefit expenditure accounts in the amount of \$37,700.

Moved By _____ Seconded By _____

ROLL CALL:

___Vorva___ Curmi, ___Clinton, ___Heitman, ___Doroshewitz, ___Dempsey, ___Heise

**STATE OF MICHIGAN
COUNTY OF WAYNE
CHARTER TOWNSHIP OF PLYMOUTH**

RESOLUTION # 2020-08-25-83

NON-UNION EMPLOYEE SALARY ADJUSTMENTS

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the "Board"), held at Township Hall located at 9955 N. Haggerty Road, Plymouth, Michigan on August 25, 2020, the following resolution was offered:

WHEREAS, Salary adjustments have been historically provided on a yearly basis to all employees of Plymouth Township, whether union or non-union; and

WHEREAS, various non-union employees of the Township, most of whom are Department Heads, have yet to receive salary adjustments this year; and

WHEREAS, these non-union employees have worked tirelessly at Township Hall throughout the year, especially during the COVID-19 Crisis, and deserve the same recognition and support as our Clerical employees, First Responders, and DPW personnel.

NOW, THEREFORE BE IT RESOLVED that the Plymouth Township Board of Trustees hereby adopt this Resolution #2020-08-25-83 authorizing the Finance Director to appropriate fund balance amending the 2020 General Fund and Water & Sewer budgets in the appropriate wage & benefit expenditure accounts in the amount of \$37,700.

Present: [Curmi, Clinton, Dempsey, Doroshewitz, Heise,
Heitman, Vorva]

Moved by:

Supported by:

Roll Call Vote

Ayes:

Nays:

Adopted: Regular Meeting of the Board of Trustees on August 25, 2020

Jerry Vorva, Clerk, Charter Township of Plymouth

Certification

STATE OF MICHIGAN)

)

COUNTY OF WAYNE)

I hereby certify that the foregoing is a true copy of the above Resolution, the original of which is on file in my office.

Jerry Vorva, Clerk
Charter Township of Plymouth

Date

Resolution: 2020-08-25-83

Plymouth Charter Township

FY2020 Budget Appropriations -Wages & Benefactors

General Ledger				Budget	
Fund/Dept	Account	Department	Description	Action	Amount
101-171	7##.###	Supervisor's Office	Wage, FICA & 401a	BAPR	\$ 1,900.00
101-201	7##.###	Information Technology	Wage, FICA & 401a	BAPR	\$ 2,500.00
101-215	7##.###	Clerk	Wage, FICA & 401a	BAPR	\$ 2,300.00
101-215	714.000	Clerk	Benefits - Healthcare	BAPR	\$ 1,400.00
101-262	714.000	Elections	Benefits - Healthcare	BAPR	\$ 7,600.00
101-305	7##.###	Police	Wage, FICA & 401a	BAPR	\$ 8,900.00
101-325	7##.###	Dispatch	Wage, FICA & 401a	BAPR	\$ 3,400.00
101-336	7##.###	Fire	Wage, FICA & 401a	BAPR	\$ 2,500.00
101-371	7##.###	Building Department	Wage, FICA & 401a	BAPR	\$ 2,900.00
592-172	7##.###	Water & Sewer- Admin	Wage, FICA & 401a	BAPR	\$ 4,300.00
Total FY2020 Budget Appropriation - Wages & Benefactors				BAPR	\$ 37,700.00