



**PONTIAC CITY COUNCIL
FORMAL MEETING**

May 29, 2018

6:00 p.m.

27th Session of the 10th Council

It is this Council's mission "To serve the citizens of Pontiac by committing to help provide an enhanced quality of life for its residents, fostering the vision of a family-friendly community that is a great place to live, work and play."

Call to order

Invocation

Pledge of Allegiance

Roll Call

Authorization to Excuse Councilmembers from Meeting

Amendments to and Approval of the Agenda

Approval of Minutes

1. Meeting of May 22, 2018.

Subcommittee Reports (as needed)

Special Presentation – Jeff Colby from McLaren Hospital.

Youth Advisory/Recreation Plan Overview - Mattie Hatchett and Others.

Recognition of Elected Officials

Agenda Address

Agenda Items for City Council Consideration

2. Resolution to change Annette Wesley's title to Director of Elections.
3. Resolution to schedule a public hearing for the City of Pontiac Proposed Annual Budget for FY 2018-2019 and City Tax Rate for Tuesday, June 5, 2018.
4. Resolution to authorize the Department of Public Works to remove traffic signs located at the following intersections: Joslyn and 2nd Ave., Joslyn and Madison Ave, Joslyn and Kennett St., Martin Luther King Jr. Blvd. and Valencia, N. Saginaw and Howard. In accordance with Section 610 (a) of Act No. 300 of the Public Acts of 1949 as last amended (Complied Laws of 1949 Section 257.610, MSA 9.2310.)
5. Resolution to authorize the Mayor to enter into a contract with Merlo Construction for \$766,569.75 for the CDBG sidewalk funded program.
6. Resolution to authorize the Mayor to enter into a contract with D/A Central Intelligence Security Solutions for a total of \$90,000 for the City's Security System upgrade Project.

Public Comment

Mayor, Clerk, City Attorney and Council Closing Comments

Adjournment

May 22, 2018

**Official Proceedings
Pontiac City Council
25th Session of the Tenth Council**

A Study Session of the City Council of Pontiac, Michigan was called to order in City Hall, Tuesday, May 22, 2018 at 6:00 p.m. by President Kermit Williams.

Call to Order at 6:00 p.m.

Roll Call

Members Present: Carter, Miller, Pietila, Taylor-Burks, Waterman, Williams and Woodward.
Mayor Waterman was Present.
Clerk announced a quorum.

18-182 **Approve the Agenda.** Moved by Councilperson Taylor-Burks and second by Councilperson Woodward.

Ayes: Miller, Pietila, Taylor-Burks, Waterman, Williams, Woodward and Carter
No: None
Motion Carried.

18-183 **Journal of May 14, 2018 Special Meeting.** Moved by Councilperson Woodward and second by Councilperson Waterman.

Ayes: Pietila, Taylor-Burks, Waterman, Williams, Woodward, Carter and Miller
No: None
Motion Carried.

18-184 **Journal of May 15, 2018.** Moved by Councilperson Woodward and second by Councilperson Pietila.

Ayes: Taylor-Burks, Waterman, Williams, Woodward, Carter, Miller and Pietila
No: None
Motion Carried.

Deputy Mayor Report or Departmental Head Report – Mayor Deirdre Waterman, Deputy Mayor Jane Bias-Disessa, DPW Acting Director John Balint.

There were 15 individuals addressed the body during public comment.

President Kermit Williams adjourned the meeting at 7:58 p.m.

SHEILA R. GRANDISON
ACTING CITY CLERK

May 11, 2018
Public Safety Subcommittee

Meeting called to Order at 9:40 a.m.

Once all departments were represented the meeting was called to order.
Deputy Mayor arrived followed by the Mayor at 9:45

Present were Attorney Chubb, Councilman Woodward, Council ProTem responded he was in attending the State of Michigan Winston Funeral, and wouldn't be attending, Fire Marshall Wallace, Coordinator Rayner, Brian Long of Star Ems, Sgt Dooley of OCSD.

Attorney Chubb opened the meeting with status update of the ongoing resolution being put together for Marijuana Facilities initiative to be placed on the ballot later this year. He did explain, the way the new law is written, if there was no action taken, as what is happened in the City and there is a written ballot initiative with enough signatures, we are required to place that initiative on the ballot, which is why the Council is writing their own, to give the residents a choice as to what they would like to see happen in Pontiac.

Sgt Dooley stated that is all normal. He also made it clear the Sheriff Department does not support the Marijuana provisionary, which is why Attorney Chubb was there to clarify the law and a ballot initiative. Upon further inquiry with Lt Troy, there have been 8 homicides in Pontiac this year, resulting in 9 deaths. Resulting in arrests in all but 2, one suspect is under investigation, the other they no one has come forward with information, but the investigation continues.

Reports from both Waterford Regional and Star are included; please keep in mind, what is on Star's reports is how it is how the complaint is called in. Example an increase in Assaults, are not necessarily what the Sheriff department would write as an assault, but what one calling it in, or requesting help wants documented, until Star arrives on scene, they are not able to determine, if that is what it is.

RSVP Program now has a car dedicated to the program, visits occur between 9:00 - 5:00 with a 99% satisfaction rate, per the latest survey. 8 car seats were given away in April. 4 New Transit vans for Pontiac were received, they will be basic units. 17 out of the 22 Training for EMT are continuing with classes. Upon completion of the course, they will be certified with the National Licensing and State Register

The death from fire as recorded on the April fire report is where the individual from another community died of smoke inhalation while his car, carrying 2 full gas cans from his home, was burning.

After a reminder that this subcommittee starts at 9:30 as we all have schedules to maintain, the meeting was adjourned. Memo, Lt responded to a text at 9:35 that Sgt was on his way, when inquired if someone was attending.

Minutes recorded by Councilwoman Mary Pietila, Chair.



WATERFORD REGIONAL FIRE DEPARTMENT

2495 Crescent Lake Road • Waterford, MI 48329

Phone: 248.673.0405 • Fax: 248.674.4095

www.waterfordmi.gov

John H. Lyman, Fire Chief • Matthew J. Covey, Deputy Fire Chief • Carl J. Wallace, Fire Marshal

MONTHLY FIRE DEPARTMENT REPORT

For the City of Pontiac

April 2018

Total calls - month: 384 Fires: 36 EMS: 221 Other: 127

Total calls - YTD: 1,436 Fires: 94 EMS: 836 Other: 506

Month	Count	Response Times	YTD Count	Response Times
FS-6	Fires – 7	4.59	27	5.42
	EMS – 40	5.23	162	5.21
FS-7:	Fires – 19	6.07	41	5.38
	EMS – 98	5.45	351	5.12
FS-8:	Fires – 3	4.02	7	4.29
	EMS – 44	5.48	182	5.19
FS-9:	Fires – 7	4.12	19	4.29
	EMS – 39	5.14	141	4.25

Fire Injuries to personnel: 0

Fire Injuries to civilian: 1 – Death in a car fire

Notable events/incidents for month:

Large Commercial Strip Mall fire in Pontiac.

Ground Ladders Tested.

New Ambulance ordered.

Family comes to fire station to say THANK YOU, for assisting in baby delivery in December.

3 Firefighters hired.

DISPATCH	18-Jan	Feb-18	Mar-18	Apr-18				
Abdominal Pain	45	19	31	24				
ALLergies	3	4	13	7				
ALTERED MENTAL STATUS		1	6	5				
Animal bites	1	0	0	4				
Assault	21	14	17	30				
Invalid assist	2	0	0	1				
Pedestrian struck by Auto		0	0	0				
Back Pain	16	12	6	8				
Breathing Problems	113	94	107	102				
Burns	3	0	2	5				
Cardiac Arrest	14	14	13	14				
Chest pain	77	60	72	70				
Choking	4	1	4	6				
CO poisoning	2	0	0	0				
Seizures	37	43	46	45				
Diabetic Issues	18	22	23	21				
Electrocution	0	0	0	0				
Eye issues	0	0	1	1				
Fainting	0	0	0	0				
Fall Victim	71	68	72	56				
Fever	0	0	0	0				
Fire	0	0	1	1				
Headache	4	1	2	1				
Heart Problems	9	14	10	14				
Heat/Cold Exposures	3	2	0	0				
Hemorrhage from Laceration	22	15	14	15				
Industrial Accident	0	0	0	0				
Medical alarms	19	21	7	15				
MCI	0	0	0	0				
Ingested Poison	0	0	0	0				
Non Emergent requests	13	0	5	11				
Overdose	48	39	36	28				
Pregnancy/Childbirth	1	7	8	7				

Psychiatric Problems	38	29	24	31				
Respiratory Arrest	0	0	0	0				
"Sick" Person	192	153	157	179				
Standby	1	1	1	0				
stab/Gunshot Wound	8	3	2	1				
Stroke/CVA	15	14	21	21				
Traffic Accidents	37	30	29	36				
Palliative care	22	19	13	15				
Traumatic Injury	7	12	6	9				
Unconscious/unknown cause	54	57	52	46				
UNKNOWN	37	14	17	30				
"Man DOWN"	0	26	8	0				
Sexual Assault	0	0	0	0				
Well Person Ck	0	1	1	1				
total	957	810	827	860				

COMMUNITY DEVELOPMENT SUB-COMMITTEE NOTES
May 15, 2018

In attendance:

Council members: Chairman Don Woodward, Mary Pietila and Gloria Miller

Mayor: Deirdre Waterman

Deputy Mayor: Jane Bais-DiSessa

Economic Development Director: Rachel J. Loughrin

Start time: 9:41 a.m.

I. Proposed Medical Marijuana Ballot Referendum

- Jobs For Pontiac has submitted a proposal to go on the ballot.
- The City of Pontiac is submitting two additional proposals.
- The City is considering community benefits and the process for implementation.

II. Proposed Ordinance Review

a. Building Demolition and Moving, Chapter 22, Article 7

- An amended draft provided.
- Provision 22-866 Safety and Fencing was added to the ordinance.
- Provision 22-870 Building Implosion Permit Application is included.

* On Feathersone, there is a buildup of dirt and it should be questioned as to what will be done with the dirt.

* The cars at the Silverdome are leaving.

b. Blight Court Ordinance (Under Review)

- The draft has been finalized, but the Deputy Mayor has to draft the procedures.
- The draft will be presented to Wade Trim first during their meeting and then to the Council at their work session.

III. Upcoming City Events-Update

a. Dream Cruise is August 18, 2018

b. M1 Road Kill is August 11, 2018

- After having a meeting with business owners, it was determined that the north end of town had not been included in the dream cruise and there was not enough residential participation.
- The Dream Cruise will have car hops which will be associated with the food trucks.
- More businesses are involved in the planning.
- The Deputy Mayor and the DPW Director are drafting letters that will be addressed to the businesses that will be affected by the Dream Cruise and the Economic Development Director and the Community Development Deputy Director will personally deliver the letters.
- Lot 9 is not used for the Dream Cruise, instead there is parking on Saginaw.
- Lot 9 was used last year for part of the entertainment, not sure whether or not Lot 9 is participating this year as it changes year to year. They can come in under the umbrella or pay half the cost.

IV. New Business

a. State of the City

- The State of the City will be held on June 4, 2018 at Crowfoot, the doors open at 6:00 pm and will start at 7:00pm.
- On May 22, 2018, the neighborhood community projects will be given to Council and certificates will be presented at the State of the City on June 4.

b. Youth Recreation Report

- Various subcommittees are involved.
- The Youth Advisory Committee's report is due to the Council on May 21, 2018 and there is 1 meeting left.
- There are lots of challenges for the budget, including two (2) settlements.
- As a consequence of the challenges, money will not be available from the surplus, so in order to have a youth program, the millage will have to be levied.

Adjourned: 10:36 a.m.

DEPARTMENT OF PUBLIC WORKS SUB-COMMITTEE NOTES

May 16, 2018

In attendance:

Council members: Chairperson Doris Taylor- Burks, and Don Woodward

DPW Director: John Balint

Start time: 4:10 p.m.

AGENDA

I. Joslyn Road

- The signs will go out next week as the start date is May 28, 2018 and September 28, 2018 is the completion date.
- The distance is from Perry to Walton.

II. Yellow Flashing Lights on Three (3) Streets

- A. The light at Kennett will be removed as the light has been in flash mode for over a year.
- B. The light on Madison will have a crossing beacon.
- C. The light on Beverly will stay.

III. Pre-Bid Meetings

- There was a pre-bid meeting to discuss Hill St. from Auburn to Pike.
- There was another pre-bid meeting to talk with road maintenance contractors regarding catch basins.

IV. Parks

- Discussed the possibility of placing signs at Oakland Park and other parks that say the park closes at dusk and also locking the parks at dusk that have gates (the cost of erecting gates for parks that do not current have gates will be researched).
- Closing the parks pursuant to the ordinance will reduce the clean-ups, graffiti and the amount of work required.
- Even if the park does not have a gate, the Sherriff's can enforce the closure.
- Signs to be placed at Oakland Park, one by the basketball court, one by the Nelson St. side and on the other side of the Park.
- Beaudette Park has just one entrance.
- Other signs maybe erected that prohibit parking on the grass and no alcohol.

V. Banners on Street Light Poles

- Very costly and all installation costs would have to be paid by the party requesting it.

VI. Sidewalks

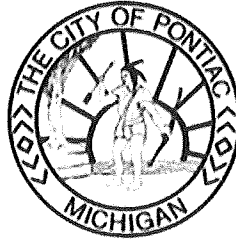
- A map was used to show the various districts, all of the areas where the sidewalks would be replaced, areas that were CDBG eligible and ineligible.
- The Executive examined areas where work had been done in the past and selected new areas, the first block North of James K, Montcalm, Saginaw, W. of Perry and S. of Walton.
- The cut off is University and not South of University

- The Executive looked at all the sidewalk lawsuits and complaints in 2016, but 2017 complaints were not included.
- Individual locations had to get approval, but blocks were easier to get approved.
- No blocks in Districts 1 or District 7.
- District 7 had a lot of money spent on streets in the last two (2) years.
- \$ 2 million dollars has been spent on District 1.
- Hitting locations in every District.
- The concrete cutting will target 1,250 locations, will allow for ADA compliance when complete and reduce the amount of work the CDBG contractor will have to do.
- The contract for the concrete cutting is for 1 year and extendable for years two (2) and three (3).
- The purpose is to spend “a little bit of money for a bigger impact.”
- A contractor has to get approved.
- All of the tree complaints have not been tracked.
- There is \$600,000 of CDBG funds from 2016 and 2017 that needs to be spent before September 2018. The City does not have the \$766,569.75, but that is understood.

VII. Upcoming Issues

- Signal removal agreements, four (4) coming with no cost.
- Possibly have the CDBG sidewalk presentation placed on the Agenda for May 22, 2018.

Adjourned: 5:00 p.m.



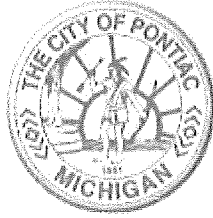
Resolution to change Annette Wesley's title to Director of Elections

WHEREAS, Annette Wesley in March of 2015, entered into an Employment Agreement with the City of Pontiac and was hired as an Election Specialist; and,

WHEREAS, the former City Clerk, Sherikia Hawkins also served as the Director of Elections until December 20, 2017; and,

WHEREAS, the Acting Clerk, Sheila Grandison on December 21, 2017, appointed Annette Wesley as the Director of Elections.

NOW THEREFORE, BE IT RESOLVED, that the Pontiac City Council hereby approves and authorizes Annette Wesley's job title to be changed from Elections Specialist to Director of Elections.



Be it further resolved that the Pontiac City Council schedules a Public Hearing for the City of Pontiac's Proposed Annual Budget for FY 2018-2019 and City Tax Rate for Tuesday, June 5, 2018 in the Pontiac City Council Chambers at 6 p.m.



CITY OF PONTIAC

OFFICIAL MEMORANDUM

Executive Branch

TO: Pontiac City Council

FROM: Jane Bais-DiSessa, Deputy Mayor, at the request of
John V. Balint, City Engineer

DATE: May 18, 2018

RE: Removal of Traffic Signals in the City of Pontiac

RECEIVED
2018 MAY 18 PM 3:01
PONTIAC CITY CLERK

The Department of Public Work, Engineering Division has been working on the rehabilitation of Joslyn Road between Perry Street (BL I-75) and Walton Blvd. This 1.6 mile road segment has eight signalized intersections which is a high density of signals and hinders efficient traffic movement. Hubbell, Roth & Clark (HRC) is providing design engineering for the Joslyn Road rehabilitation project. As part of the traffic signal modernization effort, signal warrant analyses were performed to justify the need in keeping the signals at three intersections:

- Joslyn Rd and 2nd Ave
- Joslyn Rd and Madison Ave
- Joslyn Rd and Kennett St
- Martin Luther King Jr. Boulevard and Valencia
- N. Saginaw and Howard Street

Based on the analysis, none of these intersections meet the minimum requirements for a signal. Before an existing traffic signal can be removed, it is recommended to put the traffic signal in flash mode for at least one month as a trial to confirm the intersections will operate safely. At the city's request, the Road Commission for Oakland County put the three signals in flash on June 1, 2017.

The city has received a few complaints about the flashing signals and there have been no crashes related to the change in signal operation. It is the request of the Department of Public Works, Engineering Division to approve the removal of these five signals at such time in 2018 when the rehabilitation project is under construction and the remaining signals are modernized.

WHEREAS, Section 610, (a) of Act No. 300 of the Public Acts of 1949 as last amended (Compiled Laws of 1949 Section 257.610, MSA 9.2310) says,

"Local authorities and county road commissions in their respective jurisdictions shall place and maintain such traffic control devices upon highways under their jurisdiction as they may deem necessary to indicate and to carry out the provisions of this chapter or local traffic ordinances or to regulate, warn, or guide traffic. All such traffic control devices hereafter erected shall conform to the State Manual specifications."

WHEREAS, the intersections of Joslyn and 2nd Ave, Joslyn and Madison Ave, and Joslyn and Kennett St, Martin Luther King Jr. Boulevard and Valencia and N. Saginaw and Howard, in the city of Pontiac, do not meet the minimum requirements for a signal and therefore shall be removed.

NOW, THEREFORE, BE IT RESOLVED,

The Pontiac City Council approves the removal of the traffic signals at the intersections of Joslyn and 2nd Ave, Joslyn and Madison Ave, and Joslyn and Kennett St, Martin Luther King Jr. Boulevard and Valencia and N. Saginaw and Howard, and authorizes the Department of Public Works to implement the removals.



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

RECEIVED
2018 MAY 18 PM 3:01
PONTIAC CITY CLERK

Memorandum

To: John Balint, P.E.

From: Nicholas Nicita, P.E.

Date: May 17, 2017

Subject: Signal Warrant Analysis
Joslyn Ave at 2nd Ave, Madison Ave, and Kennett St

HRC Job No. 20170097

Hubbell, Roth & Clark (HRC) is providing traffic signal modernization for a rehabilitation project on a 1.6 mile stretch along Joslyn Ave in Pontiac, Michigan. As part of the traffic signal modernization, signal warrant analyses were performed to justify the need in keeping the signals at the following intersections:

- ≡ Joslyn Ave and 2nd Ave
- ≡ Joslyn Ave and Madison Ave
- ≡ Joslyn Ave and Kennett St

Turning movement counts for the AM, midday, and PM peak hours along with 24-hour volume counts were provided by Traffic Data Collection in order to perform the signal warrant analysis. The turning movement counts were taken at all three intersections on May 18, 2016 and the 24-hour volume counts were recorded during the week of May 16, 2016. An investigation of the need for traffic signal controls included, where applicable, an analysis of the factors contained in the following warrants:

- ≡ Warrant 1: Eight-Hour Vehicular Volume
- ≡ Warrant 2: Four-Hour Vehicular Volume
- ≡ Warrant 3: Peak Hour
- ≡ Warrant 4: Pedestrian Volume
- ≡ Warrant 5: School Crossing
- ≡ Warrant 6: Coordinated Signal System
- ≡ Warrant 7: Crash Experience
- ≡ Warrant 8: Roadway Network
- ≡ Warrant 9: Intersection Near a Grade Crossing

A summary of the traffic warrant analysis for the three signalized intersections is shown in **Table 1**. All three intersections failed to meet any of the nine signal warrants. Warrant 5 related to school crossings and Warrant 9 related to rail crossings were not applicable to any of the three intersections. The complete analysis can be found in Attachments A – C.

Table 1: Traffic Signal Warrant Analysis Summary

Warrant		Joslyn Ave and 2nd Ave	Joslyn Ave and Madison Ave	Joslyn Ave and Kennett St
		Warrant Met		
Warrant 1: Eight-Hour Vehicular Volume	Condition A	No	No	No
	Condition B	No	No	No
	Combination of A & B	N/A	N/A	N/A
Warrant 2: Four-Hour Vehicular Volume		No	No	No
Warrant 3: Peak Hour		No	No	No
Warrant 4: Pedestrian Volume		No	No	No
Warrant 5: School Crossing		N/A	N/A	N/A
Warrant 6: Coordinated Signal System		No	No	No
Warrant 7: Crash Experience		No	No	No
Warrant 8: Roadway Network		No	No	No
Warrant 9: Intersection Near a Grade Crossing		N/A	N/A	N/A

Based on the traffic signal warrant analysis, HRC recommends removing the signals at the intersections of Joslyn Ave / 2nd Ave, Joslyn Ave / Madison Ave, and Joslyn Ave / Kennett St since none of these intersections warrant a traffic signal. Prior to removal, it is recommended to put the traffic signals in flash mode for at least one month as a trial to confirm the intersections will operate accordingly before permanently removing them.



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

Attachment A: Signal Warrant Analysis for Joslyn Ave and 2nd Ave

Michigan Manual of Uniform Traffic Control Devices
Volume Summary
Prepared by MDOT for the 2011 Edition of the MMUTCD

Spot Number:	0		
Major Street:	Joslyn Ave	Minor Street:	2nd Ave
Intersection:	Joslyn Ave @ 2nd Ave		
City/Twp:	Pontiac		
Date Performed:	5/15/2017	Performed By:	NN
Date Volumes Collected:	5/18/2016		

	Major NB	Major SB	Minor EB	Minor WB	Total Major	Highest Minor	Total
00:01 - 01:00	67	54	4	7	121	7	132
01:00 - 02:00	58	39	4	0	97	4	101
02:00 - 03:00	40	35	0	0	75	0	75
03:00 - 04:00	63	34	0	0	97	0	97
04:00 - 05:00	58	58	1	4	116	4	121
05:00 - 06:00	135	203	2	9	338	9	349
06:00 - 07:00	213	481	13	13	694	13	720
07:00 - 08:00	352	619	19	14	971	19	1004
08:00 - 09:00	311	530	8	15	841	15	864
09:00 - 10:00	254	340	5	16	594	16	615
10:00 - 11:00	317	282	9	11	599	11	619
11:00 - 12:00	415	363	5	10	778	10	793
12:00 - 13:00	413	431	7	20	844	20	871
13:00 - 14:00	449	443	14	14	892	14	920
14:00 - 15:00	621	522	15	14	1143	15	1172
15:00 - 16:00	790	570	11	17	1360	17	1388
16:00 - 17:00	825	494	15	17	1319	17	1351
17:00 - 18:00	799	443	11	21	1242	21	1274
18:00 - 19:00	529	432	20	24	961	24	1005
19:00 - 20:00	351	333	13	17	684	17	714
20:00 - 21:00	316	312	19	7	628	19	654
21:00 - 22:00	267	264	15	18	531	18	564
22:00 - 23:00	194	243	2	8	437	8	447
23:00 - 00:00	111	148	7	9	259	9	275
Total	7948	7673	219	285	15621	307	16125

Summary of Warrants

Spot Number:	0		
Major Street:	Joslyn Ave	Minor Street:	2nd Ave
Intersection:	Joslyn Ave at 2nd Ave		
City/Twp:	Pontiac		
Date Performed:	5/15/2017	Performed By:	NN
Date Volumes Collected:	5/18/2016		

Warrant	Condition	Is Warrant Met
Data Has Been Validated		YES
WARRANT 1: Eight-Hour Vehicular Volume		NO
	Condition A	NO
	Condition B	NO
	Condition A&B	N/A
WARRANT 2: Four-Hour Vehicular Volume	(100%)	NO
WARRANT 3: Peak-Hour Vehicular Volume	(100%)	NO
	Condition A	NO
	Condition B	NO
WARRANT 4: Pedestrian Volume	(100%)	NO
	Four Hour	NO
	Peak Hour	NO
	(Threshold) HAWK	NO
	(Threshold) RRFB	NO
WARRANT 5: School Crossing		NO
WARRANT 6: Coordinated Signal System		NO
WARRANT 7: Crash Experience		NO
	Condition A	NO
	Condition B	NO
WARRANT 8: Roadway Network		NO
WARRANT 9: Intersection Near a Grade Crossing		#N/A

Issue to Be Addressed by Signalization:
LOS and Safety

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 1: Eight-Hour Vehicular Volume

Intersection:	Joslyn Ave @ 2nd Ave		
Date	5/15/2017	by	NN

3	: No. of Lanes on Major St?
1	: No. of Lanes on Minor St?
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an isolated community?
0	: if answer 4 is Yes, then what is the of the population isolated community?
NO	: Have other remedial measures been tried?

USE 100% WARRANTS 1A AND 1B. DO NOT USE COMBINATION OF A & B

	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?	Combination Major A	Combination Minor A	Combination Major B	Combination Minor B	Warrant Condition A&B met?
Time	N-S	E-W											
00:01 - 01:00	121	7	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
01:00 - 02:00	97	4	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
02:00 - 03:00	75	0	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
03:00 - 04:00	97	0	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
04:00 - 05:00	116	4	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
05:00 - 06:00	338	9	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
06:00 - 07:00	694	13	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
07:00 - 08:00	971	19	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
08:00 - 09:00	841	15	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
09:00 - 10:00	594	16	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
10:00 - 11:00	599	11	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
11:00 - 12:00	778	10	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
12:00 - 13:00	844	20	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
13:00 - 14:00	892	14	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
14:00 - 15:00	1143	15	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
15:00 - 16:00	1360	17	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
16:00 - 17:00	1319	17	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
17:00 - 18:00	1242	21	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
18:00 - 19:00	961	24	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
19:00 - 20:00	684	17	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
20:00 - 21:00	628	19	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
21:00 - 22:00	531	18	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
22:00 - 23:00	437	8	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
23:00 - 00:00	259	9	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A

Number of Hours that met the warrant 1A =	0
Number of Hours that met the warrant 1B =	0
Number of Hours that met the warrant 1 A & B =	0

A. Is the Minimum Vehicular Volume Warrant Met? (Condition A)	NO
B. Is the Interruption of Continuous Traffic Met? (Condition B)	NO
C. Combination of Warrants A and B Criteria Met?	N/A

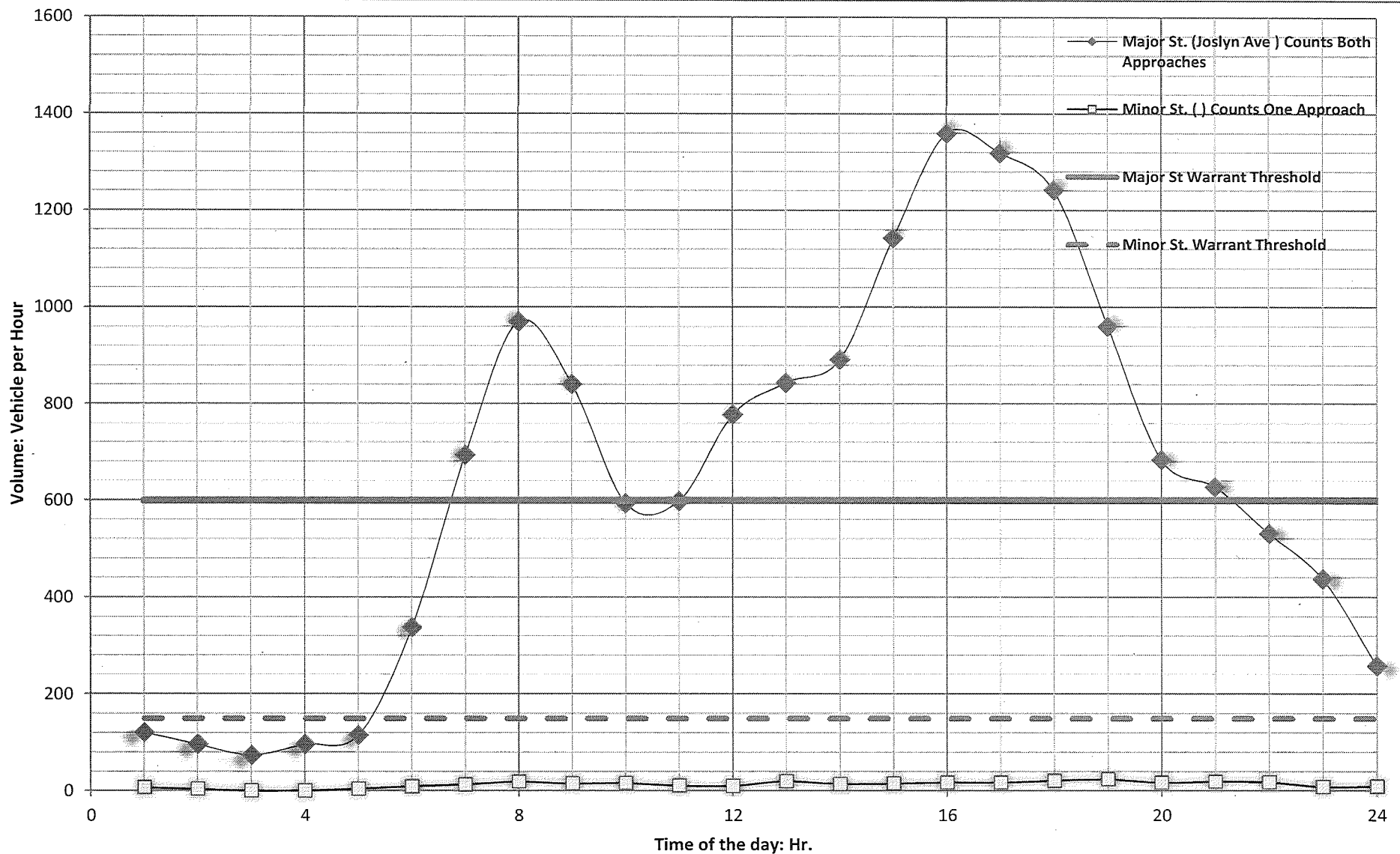


FIGURE 1: WARRANT 1A

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

Joslyn Ave @ 2nd Ave

NO. OF LANES ON MAJOR ST.? 3

NO. OF LANES ON MINOR ST.? 1

Number of Hours that met the Warrant: 0

Does this intersection meet Warrant 1A for signal installation? NO

Data Collection Date: 5/18/2016

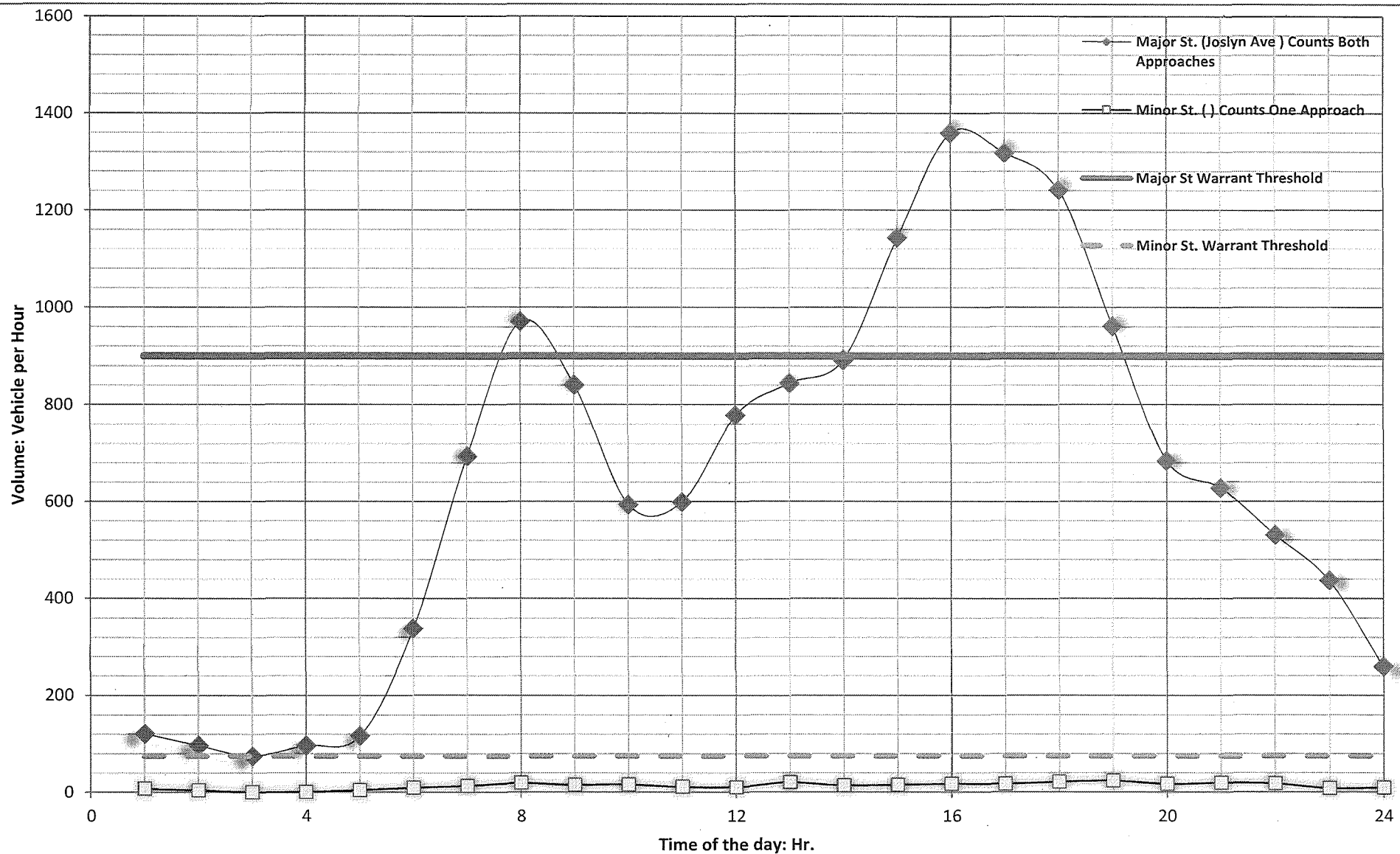


FIGURE 1: WARRANT 1B

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

Joslyn Ave @ 2nd Ave

NO. OF LANES ON MAJOR ST.? 3

NO. OF LANES ON MINOR ST.? 1

Number of Hours that met the Warrant: 0

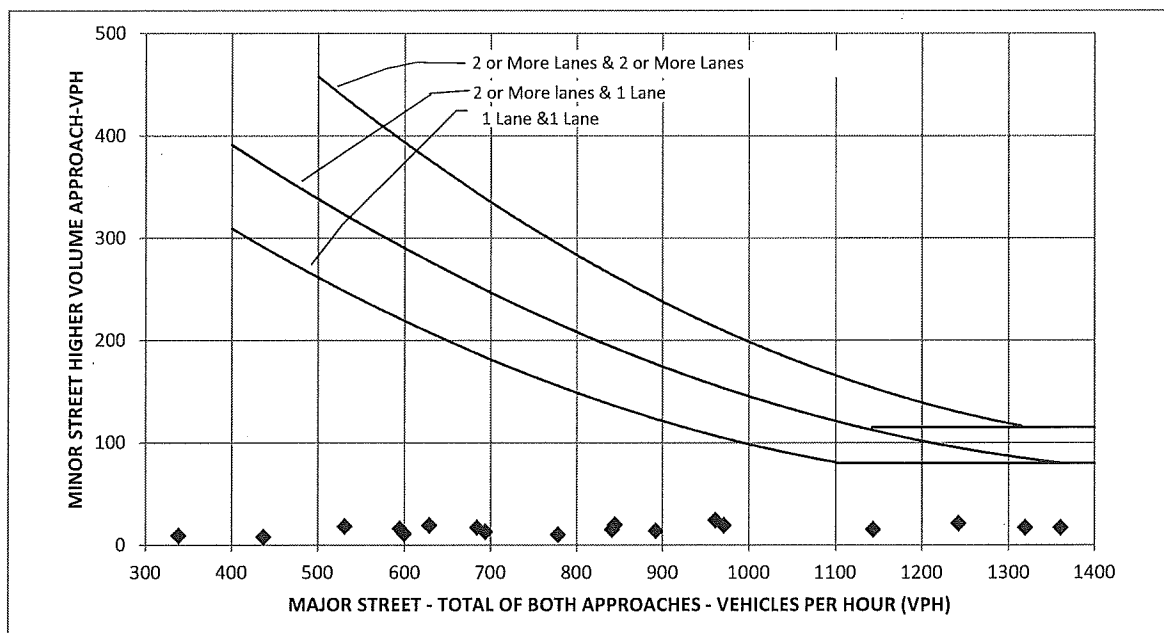
Does this intersection meet Warrant 1B for signal installation? NO

Data Collection Date: 5/18/2016

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 2: Four-Hour Vehicular Volume

Spot Number:	0
Intersection:	Joslyn Ave @ 2nd Ave
Date	5/15/2017 by NN

3	: No. of Lanes on Major St.
1	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



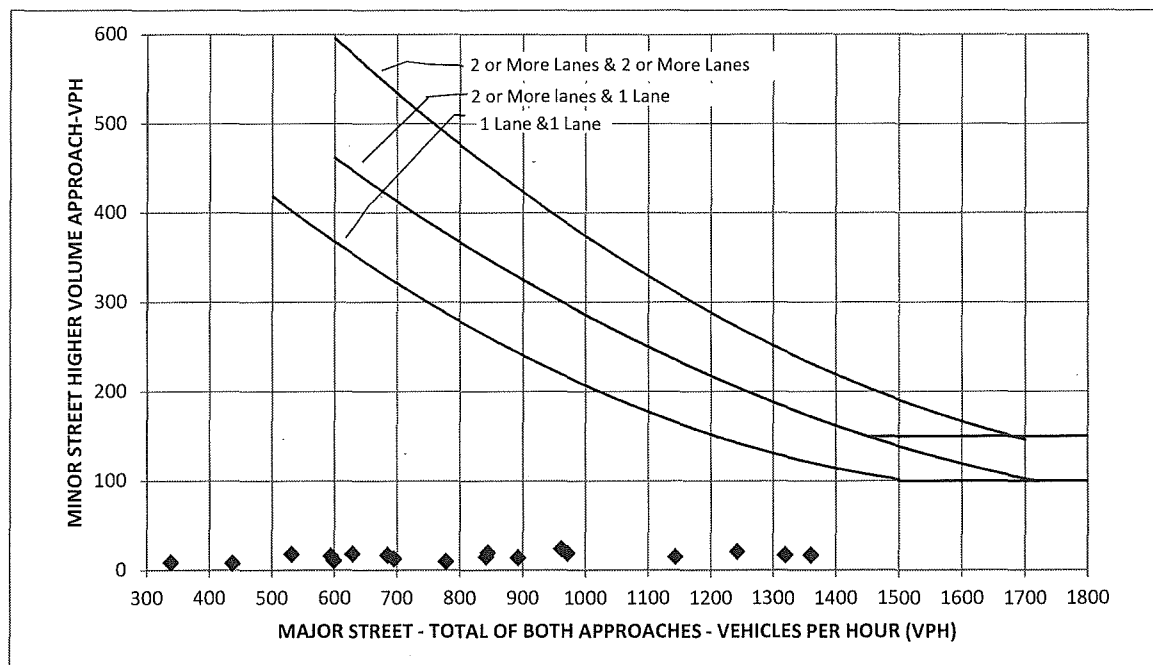
How Many Hours Are Met	0
Is Warrant 2 (100%) Met?	NO

Michigan Manual of Uniform Traffic Control Devices Worksheet for Signal Warrants (Section 4C) WARRANT 3 A: Peak-Hour Vehicular Volume			
Spot Number:	0		
Intersection:	Joslyn Ave @ 2nd Ave		
Date	5/15/2017	by	NN
NOT MET	0	: Total Stop Time Delay (hrs)	
	1	: Minor Street Approach Lanes	
	4	: Total Approaches	
NOT MET	0	: Minor Approach Volume	
NOT MET	97	: Total Entering Volume	
	03:00 - 04:00	: Peak Hour	
Is Warrant 3 A Met?			NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 3 B(100%): Peak-Hour Vehicular Volume

Spot Number:	0
Intersection:	Joslyn Ave @ 2nd Ave
Date	5/15/2017 by NN

3	: No. of Lanes on Major St.
1	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

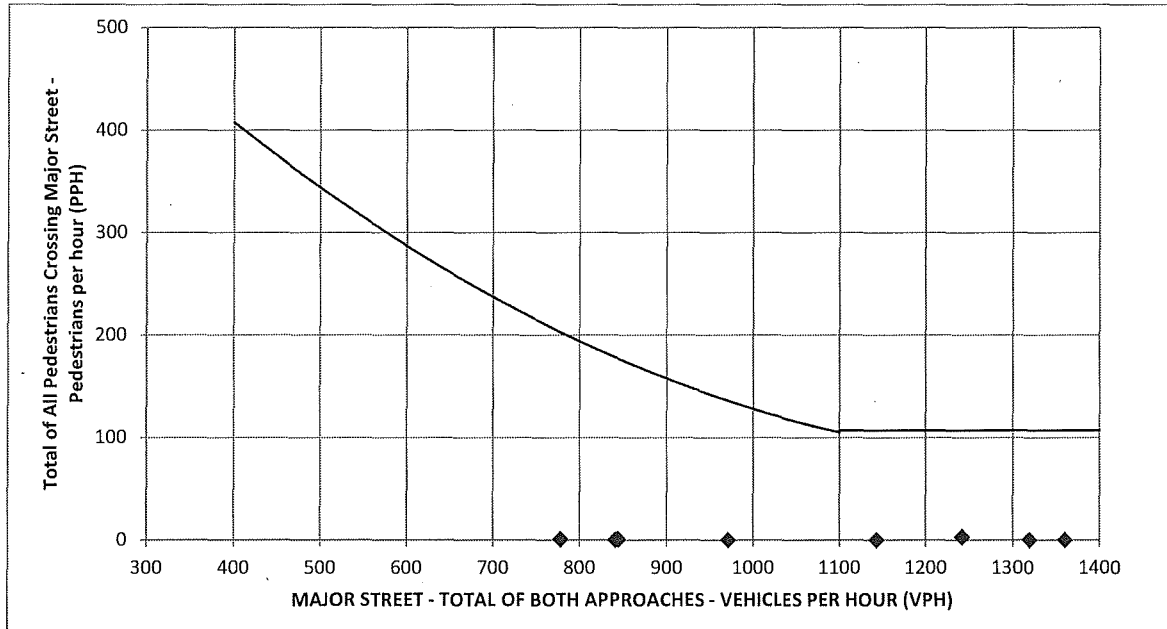
Is Warrant 3 B (100%) Met?

NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 4 (100%): Four-Hour Pedestrian Volume

Spot Number:	0
Intersection:	Joslyn Ave @ 2nd Ave
Date	5/15/2017
	by NN

650	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

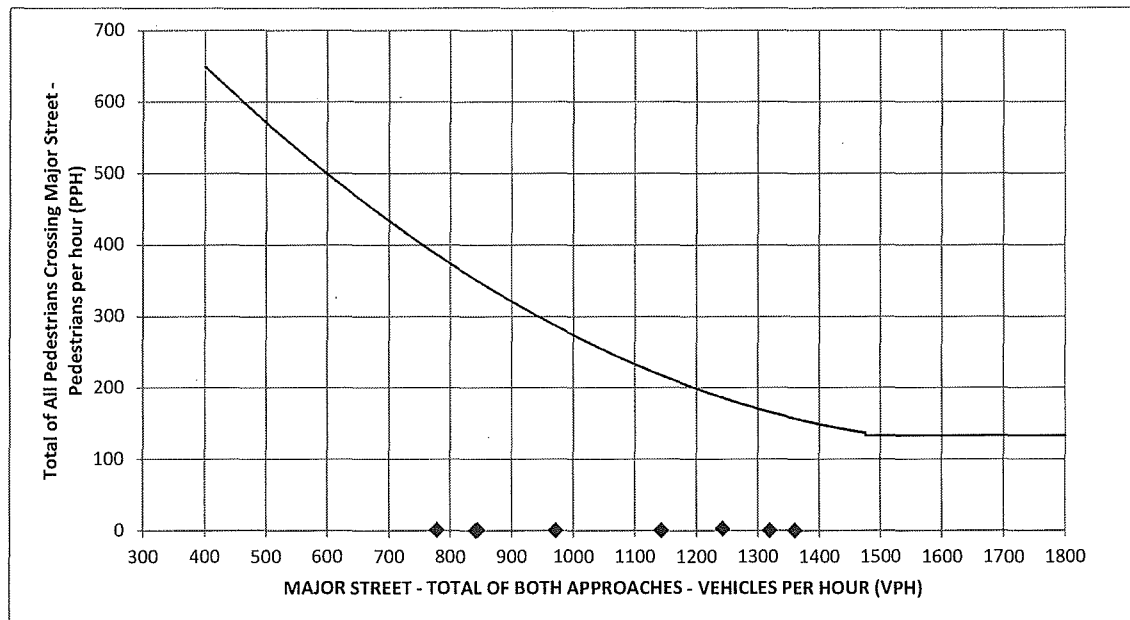
Is Warrant 4 B (100%): Four Hour Met?

NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 4 (100%): Peak-Hour Pedestrian Volume

Spot Number:	0		
Intersection:	Joslyn Ave @ 2nd Ave		
Date	5/15/2017	by	NN

650	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

Is Warrant 4 B (100%): Peak Hour Met?

NO

Michigan Manual of Uniform Traffic Control Devices Worksheet for Signal Warrants (Section 4C) WARRANT 7: Crash Experience																
Spot Number:	0															
Intersection:	Joslyn Ave @ 2nd Ave															
Date:	5/15/2017	by	NN													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">1</td> <td>: No. of Lanes on Major St?</td> </tr> <tr> <td>3</td> <td>: No. of Lanes on Minor St?</td> </tr> <tr> <td>NO</td> <td>: Has adequate trial of remedial measure with adequate enforcement been tried?</td> </tr> <tr> <td>NO</td> <td>: Are there 5 or more Crashes Susceptable to Correction by Signalization in a 12 Month Period?</td> </tr> </table>									1	: No. of Lanes on Major St?	3	: No. of Lanes on Minor St?	NO	: Has adequate trial of remedial measure with adequate enforcement been tried?	NO	: Are there 5 or more Crashes Susceptable to Correction by Signalization in a 12 Month Period?
1	: No. of Lanes on Major St?															
3	: No. of Lanes on Minor St?															
NO	: Has adequate trial of remedial measure with adequate enforcement been tried?															
NO	: Are there 5 or more Crashes Susceptable to Correction by Signalization in a 12 Month Period?															
	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?								
Time	N-S	E-W														
00:01 - 01:00	121	7	480	120	NO	720	60	NO								
01:00 - 02:00	97	4	480	120	NO	720	60	NO								
02:00 - 03:00	75	0	480	120	NO	720	60	NO								
03:00 - 04:00	97	0	480	120	NO	720	60	NO								
04:00 - 05:00	116	4	480	120	NO	720	60	NO								
05:00 - 06:00	338	9	480	120	NO	720	60	NO								
06:00 - 07:00	694	13	480	120	NO	720	60	NO								
07:00 - 08:00	971	19	480	120	NO	720	60	NO								
08:00 - 09:00	841	15	480	120	NO	720	60	NO								
09:00 - 10:00	594	16	480	120	NO	720	60	NO								
10:00 - 11:00	599	11	480	120	NO	720	60	NO								
11:00 - 12:00	778	10	480	120	NO	720	60	NO								
12:00 - 13:00	844	20	480	120	NO	720	60	NO								
13:00 - 14:00	892	14	480	120	NO	720	60	NO								
14:00 - 15:00	1143	15	480	120	NO	720	60	NO								
15:00 - 16:00	1360	17	480	120	NO	720	60	NO								
16:00 - 17:00	1319	17	480	120	NO	720	60	NO								
17:00 - 18:00	1242	21	480	120	NO	720	60	NO								
18:00 - 19:00	961	24	480	120	NO	720	60	NO								
19:00 - 20:00	684	17	480	120	NO	720	60	NO								
20:00 - 21:00	628	19	480	120	NO	720	60	NO								
21:00 - 22:00	531	18	480	120	NO	720	60	NO								
22:00 - 23:00	437	8	480	120	NO	720	60	NO								
23:00 - 00:00	259	9	480	120	NO	720	60	NO								
Is there a reduction in the warrant thresholds to 56% = NO Number of Hours that met the warrant 7A = 0 Number of Hours that met the warrant 7B = 0																
A. Is the Minimum Vehicular Volume Warrant Met Based on Crash Patterns? (Condition A)								NO								
B. Is the Interruption of Continuous Traffic Met Based on Crash Patterns? (Condition B)								NO								



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Attachment B: Signal Warrant Analysis for Joslyn Ave and Madison Ave

Michigan Manual of Uniform Traffic Control Devices
Volume Summary
Prepared by MDOT for the 2011 Edition of the MMUTCD

Spot Number:	0		
Major Street:	Joslyn Ave	Minor Street:	Madison Ave
Intersection:	Joslyn Ave @ Madison Ave		
City/Twp:	Pontiac		
Date Performed:	5/15/2017	Performed By:	NN
Date Volumes Collected:	5/18/2016		

	Major NB	Major SB	Minor EB	Minor WB	Total Major	Highest Minor	Total
00:01 - 01:00	49	61	0	18	110	18	128
01:00 - 02:00	39	36	0	7	75	7	82
02:00 - 03:00	27	28	0	4	55	4	59
03:00 - 04:00	59	29	0	10	88	10	98
04:00 - 05:00	52	37	0	12	89	12	101
05:00 - 06:00	141	106	0	32	247	32	279
06:00 - 07:00	217	343	0	54	560	54	614
07:00 - 08:00	321	535	0	109	856	109	965
08:00 - 09:00	281	463	0	93	744	93	837
09:00 - 10:00	220	337	0	69	557	69	626
10:00 - 11:00	256	294	0	62	550	62	612
11:00 - 12:00	300	319	0	86	619	86	705
12:00 - 13:00	335	399	0	118	734	118	852
13:00 - 14:00	403	375	0	135	778	135	913
14:00 - 15:00	416	519	0	116	935	116	1051
15:00 - 16:00	563	630	0	121	1193	121	1314
16:00 - 17:00	642	493	0	126	1135	126	1261
17:00 - 18:00	683	451	0	112	1134	112	1246
18:00 - 19:00	415	374	0	131	789	131	920
19:00 - 20:00	287	318	0	89	605	89	694
20:00 - 21:00	291	286	0	81	577	81	658
21:00 - 22:00	229	207	0	88	436	88	524
22:00 - 23:00	149	231	0	50	380	50	430
23:00 - 00:00	92	151	0	33	243	33	276
Total	6467	7022	0	1756	13489	1756	15245

Summary of Warrants

Spot Number:	0		
Major Street:	Joslyn Ave	Minor Street:	Madison Ave
Intersection:	Joslyn Ave at Madison Ave		
City/Twp:	Pontiac		
Date Performed:	5/15/2017	Performed By:	NN
Date Volumes Collected:	5/18/2016		

Warrant	Condition	Is Warrant Met
Data Has Been Validated		YES
WARRANT 1: Eight-Hour Vehicular Volume		NO
	Condition A	NO
	Condition B	NO
	Condition A&B	N/A
WARRANT 2: Four-Hour Vehicular Volume	(100%)	NO
WARRANT 3: Peak-Hour Vehicular Volume	(100%)	NO
	Condition A	NO
	Condition B	NO
WARRANT 4: Pedestrian Volume	(100%)	NO
	Four Hour	NO
	Peak Hour	NO
(Threshold)	HAWK	NO
(Threshold)	RRFB	NO
WARRANT 5: School Crossing		NO
WARRANT 6: Coordinated Signal System		NO
WARRANT 7: Crash Experience		NO
	Condition A	NO
	Condition B	NO
WARRANT 8: Roadway Network		NO
WARRANT 9: Intersection Near a Grade Crossing		#N/A

Issue to Be Addressed by Signalization:
LOS and Safety

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 1: Eight-Hour Vehicular Volume

Intersection:	Joslyn Ave @ Madison Ave		
Date	5/15/2017	by	NN

3	: No. of Lanes on Major St?
2	: No. of Lanes on Minor St?
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an isolated community?
0	: If answer 4 is Yes, then what is the of the population isolated community?
NO	: Have other remedial measures been tried?

USE 100% WARRANTS 1A AND 1B. DO NOT USE COMBINATION OF A & B

Time	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?	Combination Major A	Combination Minor A	Combination Major B	Combination Minor B	Warrant Condition A&B met?
00:01 - 01:00	110	18	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
01:00 - 02:00	75	7	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
02:00 - 03:00	55	4	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
03:00 - 04:00	88	10	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
04:00 - 05:00	89	12	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
05:00 - 06:00	247	32	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
06:00 - 07:00	560	54	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
07:00 - 08:00	856	109	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
08:00 - 09:00	744	93	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
09:00 - 10:00	557	69	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
10:00 - 11:00	550	62	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
11:00 - 12:00	619	86	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
12:00 - 13:00	734	118	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
13:00 - 14:00	778	135	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
14:00 - 15:00	935	116	600	200	NO	900	100	YES	N/A	N/A	N/A	N/A	N/A
15:00 - 16:00	1193	121	600	200	NO	900	100	YES	N/A	N/A	N/A	N/A	N/A
16:00 - 17:00	1135	126	600	200	NO	900	100	YES	N/A	N/A	N/A	N/A	N/A
17:00 - 18:00	1134	112	600	200	NO	900	100	YES	N/A	N/A	N/A	N/A	N/A
18:00 - 19:00	789	131	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
19:00 - 20:00	605	89	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
20:00 - 21:00	577	81	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
21:00 - 22:00	436	88	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
22:00 - 23:00	380	50	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
23:00 - 00:00	243	33	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A

Number of Hours that met the warrant 1A = 0

Number of Hours that met the warrant 1B = 4

Number of Hours that met the warrant 1 A & B = 0

A. Is the Minimum Vehicular Volume Warrant Met? (Condition A)

NO

B. Is the Interruption of Continuous Traffic Met? (Condition B)

NO

C. Combination of Warrants A and B Criteria Met?

N/A

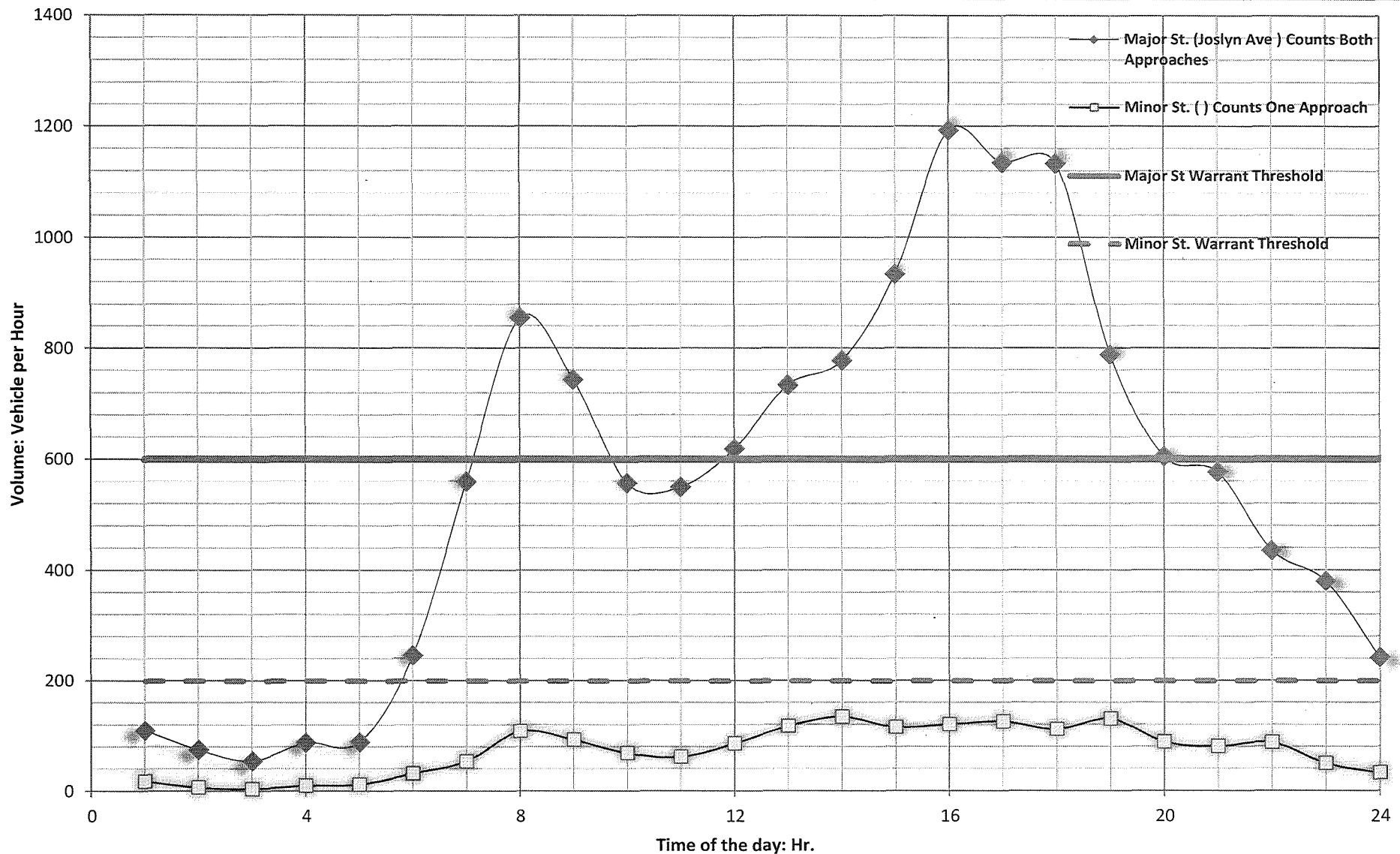


FIGURE 1: WARRANT 1A

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

Joslyn Ave @ Madison Ave

NO. OF LANES ON MAJOR ST.? 3

NO. OF LANES ON MINOR ST.? 2

Number of Hours that met the Warrant: 0

Does this intersection meet Warrant 1A for signal installation? NO

Data Collection Date: 5/18/2016

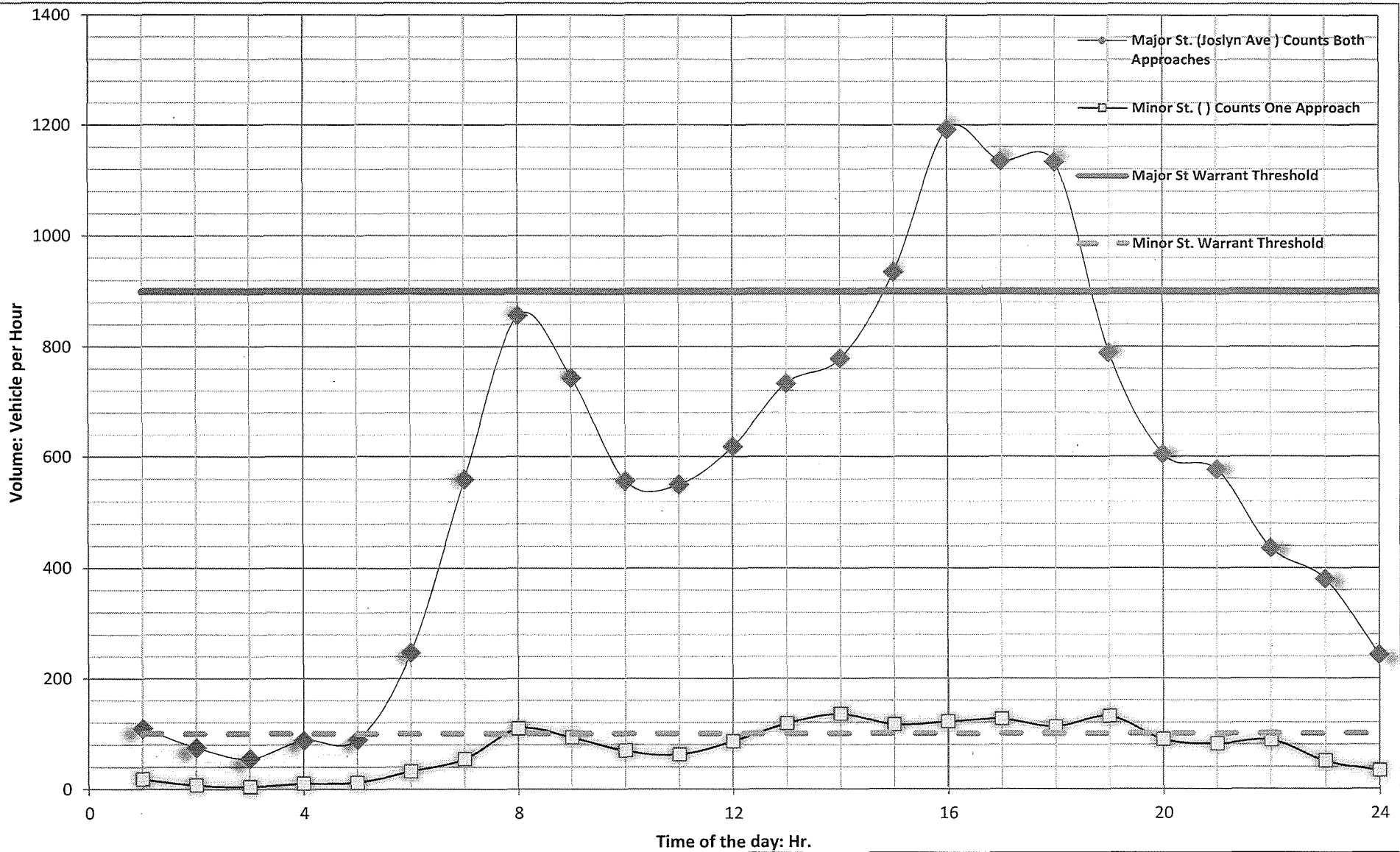


FIGURE 1: WARRANT 1B

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

Joslyn Ave @ Madison Ave

NO. OF LANES ON MAJOR ST.? 3

NO. OF LANES ON MINOR ST.? 2

Number of Hours that met the Warrant: 4

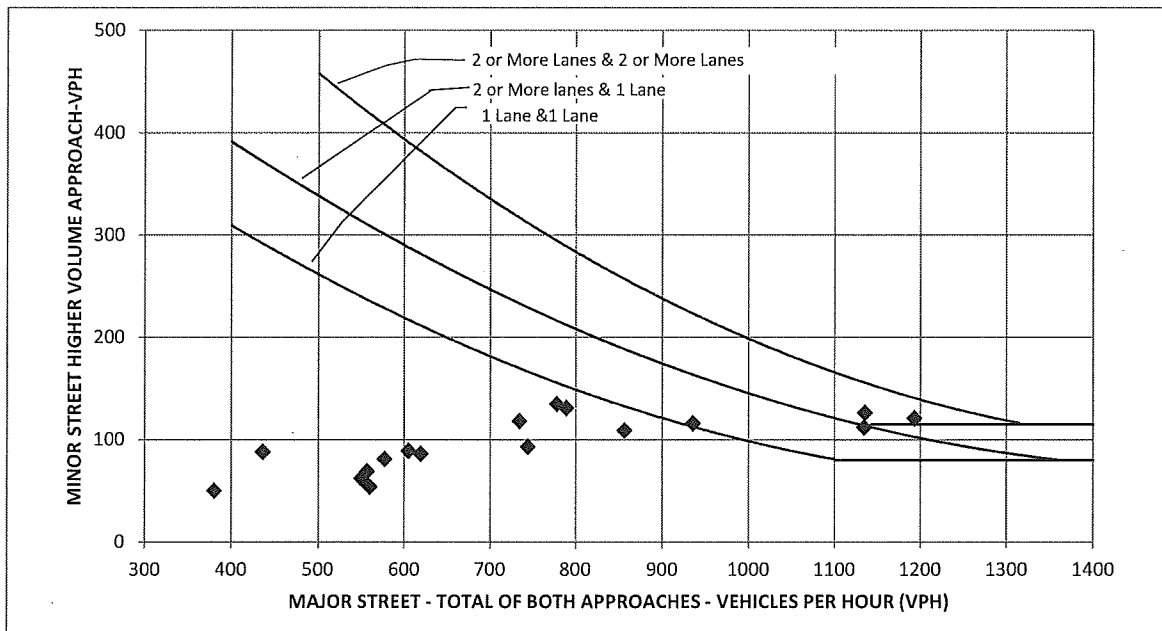
Does this intersection meet Warrant 1B for signal installation? NO

Data Collection Date: 5/18/2016

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 2: Four-Hour Vehicular Volume

Spot Number:	0		
Intersection:	Joslyn Ave @ Madison Ave		
Date	5/15/2017	by	NN

3	: No. of Lanes on Major St.
2	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met	0
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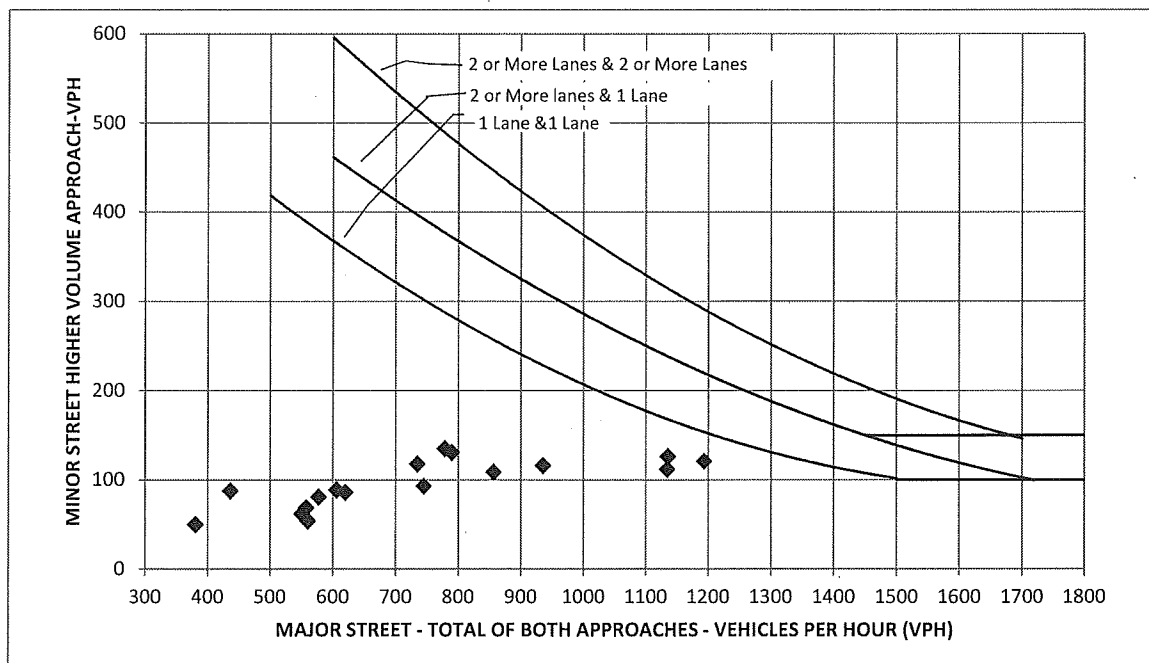
Is Warrant 2 (100%) Met?	NO
--------------------------	----

Michigan Manual of Uniform Traffic Control Devices			
Worksheet for Signal Warrants (Section 4C)			
WARRANT 3 A: Peak-Hour Vehicular Volume			
Spot Number:	0		
Intersection:	Joslyn Ave @ Madison Ave		
Date	5/15/2017	by	NN
NOT MET	0	: Total Stop Time Delay (hrs)	
	2	: Minor Street Approach Lanes	
	3	: Total Approaches	
NOT MET	12	: Minor Approach Volume	
NOT MET	101	: Total Entering Volume	
	04:00 - 05:00 : Peak Hour		
Is Warrant 3 A Met?			NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 3 B(100%): Peak-Hour Vehicular Volume

Spot Number:	0
Intersection:	Joslyn Ave @ Madison Ave
Date	5/15/2017 by NN

3	: No. of Lanes on Major St.
2	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

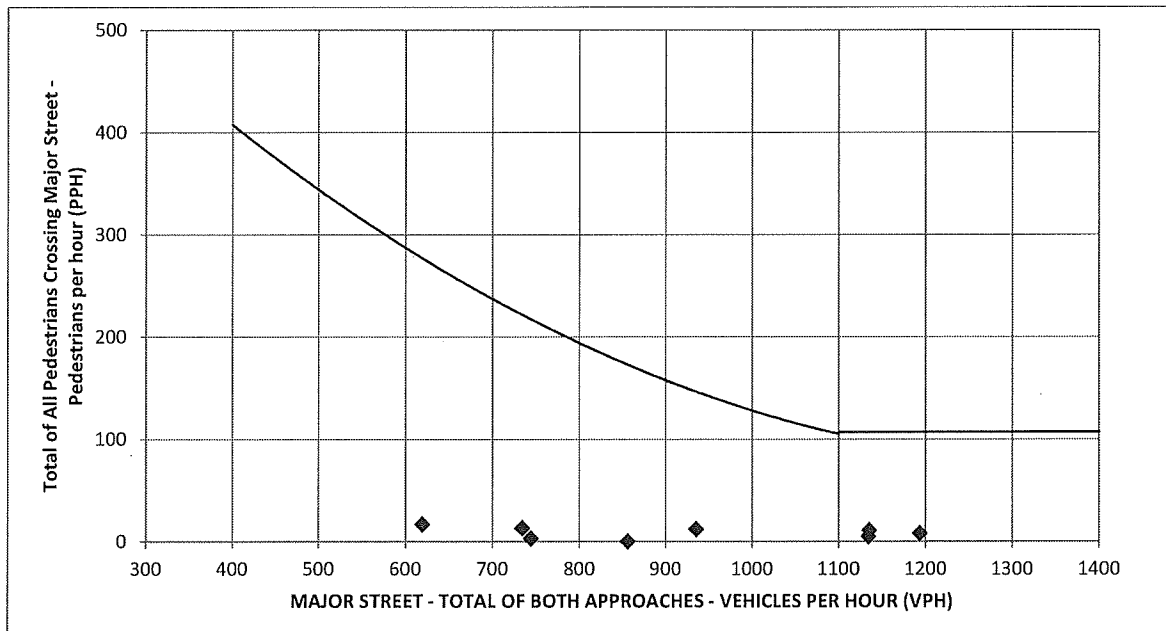
Is Warrant 3 B (100%) Met?

NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 4 (100%): Four-Hour Pedestrian Volume

Spot Number:	0
Intersection:	Joslyn Ave @ Madison Ave
Date	5/15/2017 by NN

900	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

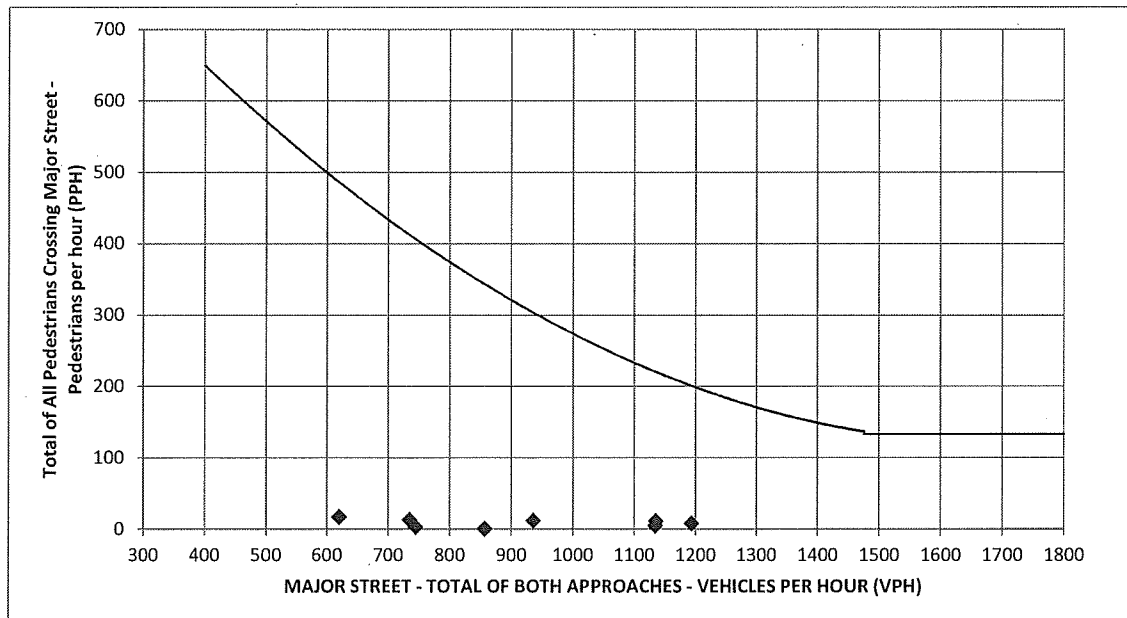
Is Warrant 4 B (100%): Four Hour Met?

NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 4 (100%): Peak-Hour Pedestrian Volume

Spot Number:	0		
Intersection:	Joslyn Ave @ Madison Ave		
Date	5/15/2017	by	NN

900	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met	0
Is Warrant 4 B (100%): Peak Hour Met?	NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 7: Crash Experience

Spot Number:	0		
Intersection:	Joslyn Ave @ Madison Ave		
Date	5/15/2017	by	NN

2	: No. of Lanes on Major St?
3	: No. of Lanes on Minor St?
NO	: Has adequate trial of remedial measure with adequate enforcement been tried?
NO	: Are there 5 or more Crashes Susceptable to Correction by Signalization in a 12 Month Period?

	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?
Time	N-S	E-W						
00:01 - 01:00	110	18	480	160	NO	720	80	NO
01:00 - 02:00	75	7	480	160	NO	720	80	NO
02:00 - 03:00	55	4	480	160	NO	720	80	NO
03:00 - 04:00	88	10	480	160	NO	720	80	NO
04:00 - 05:00	89	12	480	160	NO	720	80	NO
05:00 - 06:00	247	32	480	160	NO	720	80	NO
06:00 - 07:00	560	54	480	160	NO	720	80	NO
07:00 - 08:00	856	109	480	160	NO	720	80	YES
08:00 - 09:00	744	93	480	160	NO	720	80	YES
09:00 - 10:00	557	69	480	160	NO	720	80	NO
10:00 - 11:00	550	62	480	160	NO	720	80	NO
11:00 - 12:00	619	86	480	160	NO	720	80	NO
12:00 - 13:00	734	118	480	160	NO	720	80	YES
13:00 - 14:00	778	135	480	160	NO	720	80	YES
14:00 - 15:00	935	116	480	160	NO	720	80	YES
15:00 - 16:00	1193	121	480	160	NO	720	80	YES
16:00 - 17:00	1135	126	480	160	NO	720	80	YES
17:00 - 18:00	1134	112	480	160	NO	720	80	YES
18:00 - 19:00	789	131	480	160	NO	720	80	YES
19:00 - 20:00	605	89	480	160	NO	720	80	NO
20:00 - 21:00	577	81	480	160	NO	720	80	NO
21:00 - 22:00	436	88	480	160	NO	720	80	NO
22:00 - 23:00	380	50	480	160	NO	720	80	NO
23:00 - 00:00	243	33	480	160	NO	720	80	NO

Is there a reduction in the warrant thresholds to 56% =
 Number of Hours that met the warrant 7A =
 Number of Hours that met the warrant 7B =

A. Is the Minimum Vehicular Volume Warrant Met Based on Crash Patterns? (Condition A)

NO

B. Is the Interruption of Continuous Traffic Met Based on Crash Patterns? (Condition B)

NO



HUBBELL, ROTH & CLARK, INC
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Attachment C: Signal Warrant Analysis for Joslyn Ave and Kennett St

Michigan Manual of Uniform Traffic Control Devices
Volume Summary
Prepared by MDOT for the 2011 Edition of the MMUTCD

Spot Number:	0		
Major Street:	Joslyn Ave	Minor Street:	Kennett St
Intersection:	Joslyn Ave @ Kennett St		
City/Twp:	Pontiac		
Date Performed:	5/15/2017	Performed By:	NN
Date Volumes Collected:	5/18/2016		

	Major NB	Major SB	Minor EB	Minor WB	Total Major	Highest Minor	Total
00:01 - 01:00	54	58	0	4	112	4	116
01:00 - 02:00	38	32	0	2	70	2	72
02:00 - 03:00	25	21	0	2	46	2	48
03:00 - 04:00	45	25	0	12	70	12	82
04:00 - 05:00	49	40	0	10	89	10	99
05:00 - 06:00	118	94	0	54	212	54	266
06:00 - 07:00	222	321	2	50	543	50	595
07:00 - 08:00	342	481	0	57	823	57	880
08:00 - 09:00	306	405	1	41	711	41	753
09:00 - 10:00	217	316	7	25	533	25	565
10:00 - 11:00	259	276	0	14	535	14	549
11:00 - 12:00	292	280	0	22	572	22	594
12:00 - 13:00	313	371	1	31	684	31	716
13:00 - 14:00	408	335	8	29	743	29	780
14:00 - 15:00	411	478	45	21	889	45	955
15:00 - 16:00	479	568	119	36	1047	119	1202
16:00 - 17:00	528	424	223	26	952	223	1201
17:00 - 18:00	610	392	128	35	1002	128	1165
18:00 - 19:00	401	326	27	38	727	38	792
19:00 - 20:00	299	292	1	31	591	31	623
20:00 - 21:00	255	275	0	24	530	24	554
21:00 - 22:00	197	208	0	23	405	23	428
22:00 - 23:00	138	199	0	17	337	17	354
23:00 - 00:00	99	133	0	11	232	11	243
Total	6105	6350	562	615	12455	1012	13632

Summary of Warrants

Spot Number:	0		
Major Street:	Joslyn Ave	Minor Street:	Kennett St
Intersection:	Joslyn Ave at Kennett St		
City/Twp:	Pontiac		
Date Performed:	5/15/2017	Performed By:	NN
Date Volumes Collected:	5/18/2016		

Warrant	Condition	Is Warrant Met
Data Has Been Validated		YES
WARRANT 1: Eight-Hour Vehicular Volume		NO
	Condition A	NO
	Condition B	NO
	Condition A&B	N/A
WARRANT 2: Four-Hour Vehicular Volume	(100%)	NO
WARRANT 3: Peak-Hour Vehicular Volume	(100%)	NO
	Condition A	NO
	Condition B	NO
WARRANT 4: Pedestrian Volume	(100%)	NO
	Four Hour	NO
	Peak Hour	NO
	(Threshold) HAWK	NO
	(Threshold) RRFB	NO
WARRANT 5: School Crossing		NO
WARRANT 6: Coordinated Signal System		NO
WARRANT 7: Crash Experience		NO
	Condition A	NO
	Condition B	NO
WARRANT 8: Roadway Network		NO
WARRANT 9: Intersection Near a Grade Crossing		#N/A

Issue to Be Addressed by Signalization:
LOS and Safety

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 1: Eight-Hour Vehicular Volume

Intersection:	Joslyn Ave @ Kennett St		
Date	5/15/2017	by	NN

3	: No. of Lanes on Major St?
3	: No. of Lanes on Minor St?
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an isolated community?
0	: If answer 4 is Yes, then what is the of the population isolated community?
NO	: Have other remedial measures been tried?

USE 100% WARRANTS 1A AND 1B. DO NOT USE COMBINATION OF A & B

	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?	Combination Major A	Combination Minor A	Combination Major B	Combination Minor B	Warrant Condition A&B met?
Time	N-S	E-W											
00:01 - 01:00	112	4	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
01:00 - 02:00	70	2	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
02:00 - 03:00	46	2	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
03:00 - 04:00	70	12	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
04:00 - 05:00	89	10	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
05:00 - 06:00	212	54	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
06:00 - 07:00	543	50	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
07:00 - 08:00	823	57	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
08:00 - 09:00	711	41	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
09:00 - 10:00	533	25	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
10:00 - 11:00	535	14	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
11:00 - 12:00	572	22	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
12:00 - 13:00	684	31	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
13:00 - 14:00	743	29	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
14:00 - 15:00	889	45	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
15:00 - 16:00	1047	119	600	200	NO	900	100	YES	N/A	N/A	N/A	N/A	N/A
16:00 - 17:00	952	223	600	200	YES	900	100	YES	N/A	N/A	N/A	N/A	N/A
17:00 - 18:00	1002	128	600	200	NO	900	100	YES	N/A	N/A	N/A	N/A	N/A
18:00 - 19:00	727	38	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
19:00 - 20:00	591	31	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
20:00 - 21:00	530	24	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
21:00 - 22:00	405	23	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
22:00 - 23:00	337	17	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A
23:00 - 00:00	232	11	600	200	NO	900	100	NO	N/A	N/A	N/A	N/A	N/A

Number of Hours that met the warrant 1A = 1
 Number of Hours that met the warrant 1B = 3
 Number of Hours that met the warrant 1 A & B = 0

A. Is the Minimum Vehicular Volume Warrant Met? (Condition A)	NO
B. Is the Interruption of Continuous Traffic Met? (Condition B)	NO
C. Combination of Warrants A and B Criteria Met?	N/A

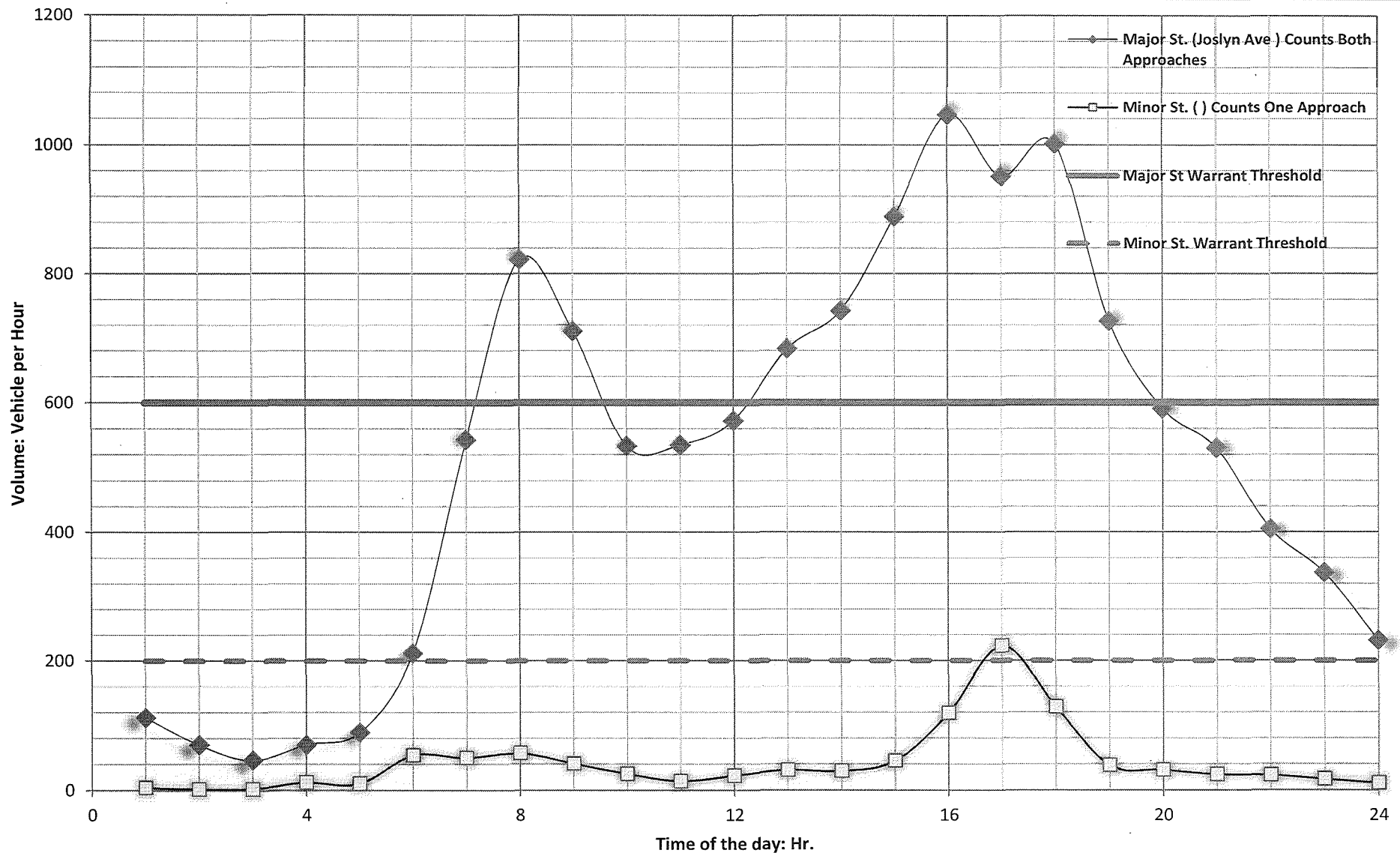


FIGURE 1: WARRANT 1A

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

Joslyn Ave @ Kennett St

NO. OF LANES ON MAJOR ST.? 3

NO. OF LANES ON MINOR ST.? 3

Number of Hours that met the Warrant: 1

Does this intersection meet Warrant 1A for signal installation? NO

Data Collection Date: 5/18/2016

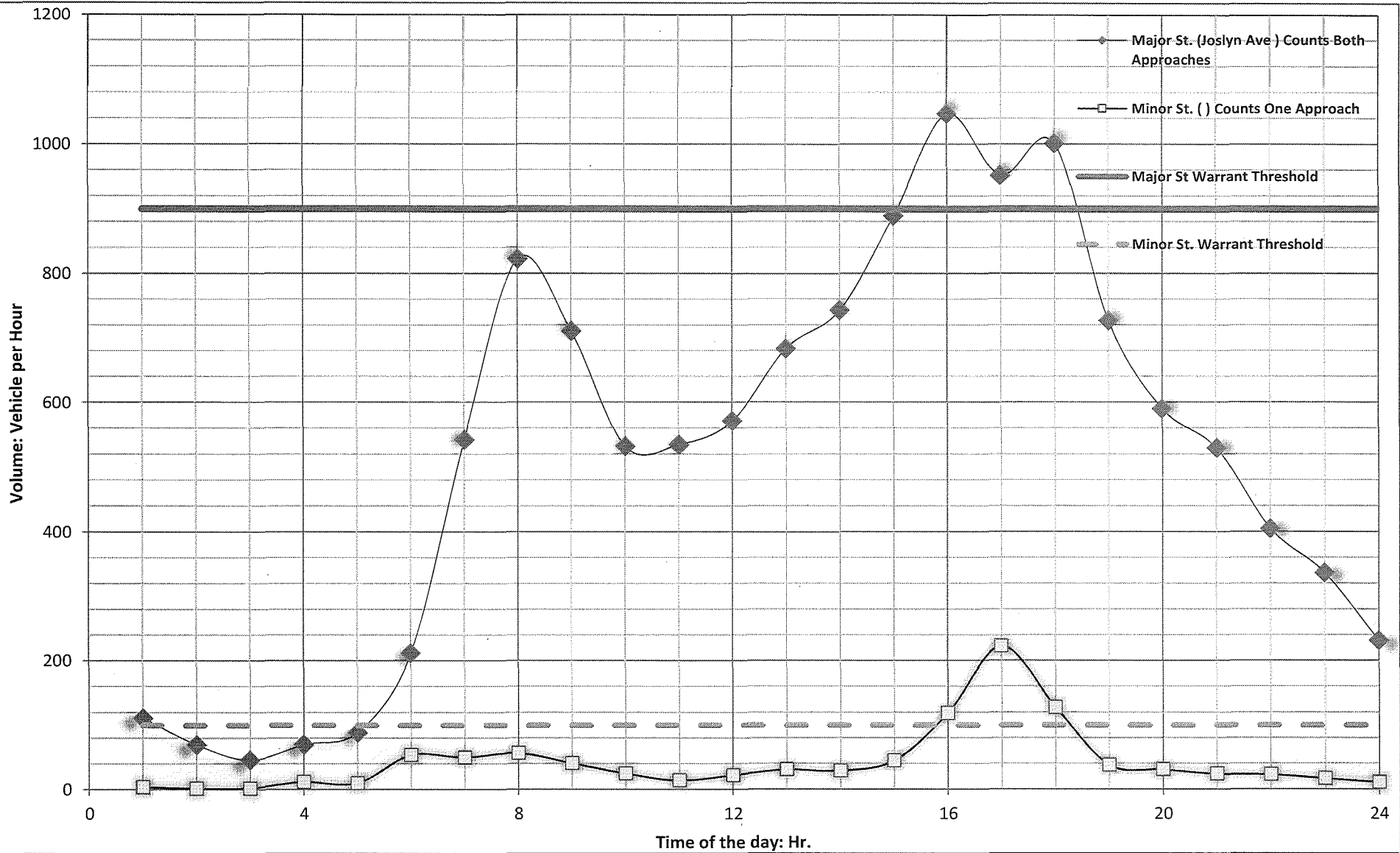


FIGURE 1: WARRANT 1B

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

Joslyn Ave @ Kennett St

NO. OF LANES ON MAJOR ST.? 3

NO. OF LANES ON MINOR ST.? 3

Number of Hours that met the Warrant: 3

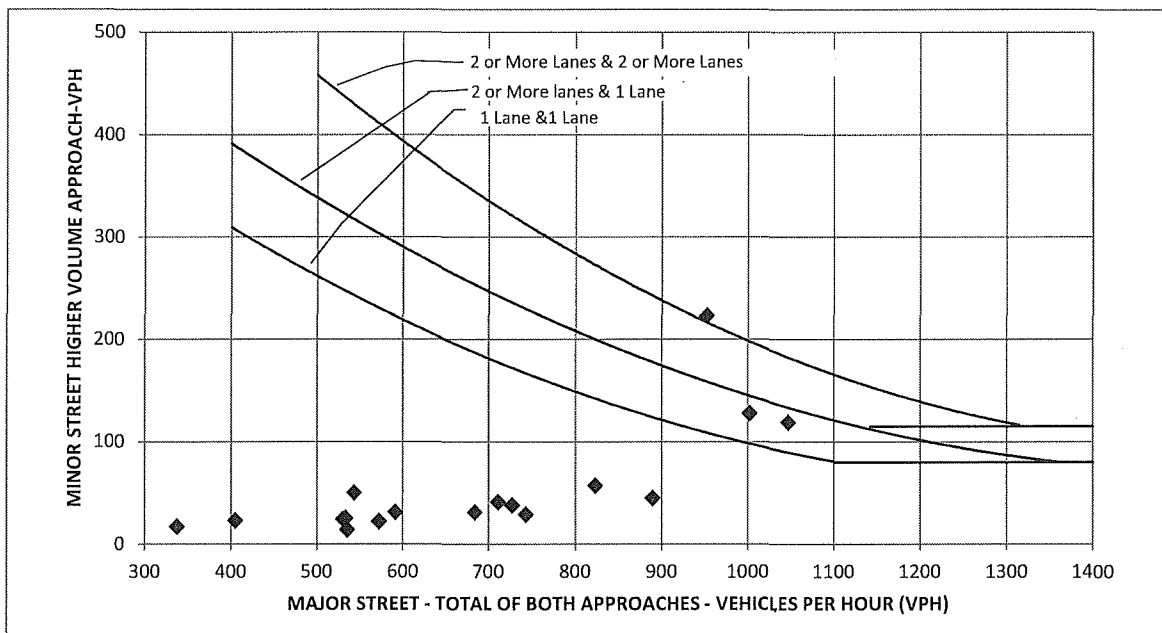
Does this intersection meet Warrant 1B for signal installation? NO

Data Collection Date: 5/18/2016

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 2: Four-Hour Vehicular Volume

Spot Number:	0
Intersection:	Joslyn Ave @ Kennett St
Date	5/15/2017 by NN

3	: No. of Lanes on Major St.
3	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an isolated community?
0	: What is the of the population isolated community?



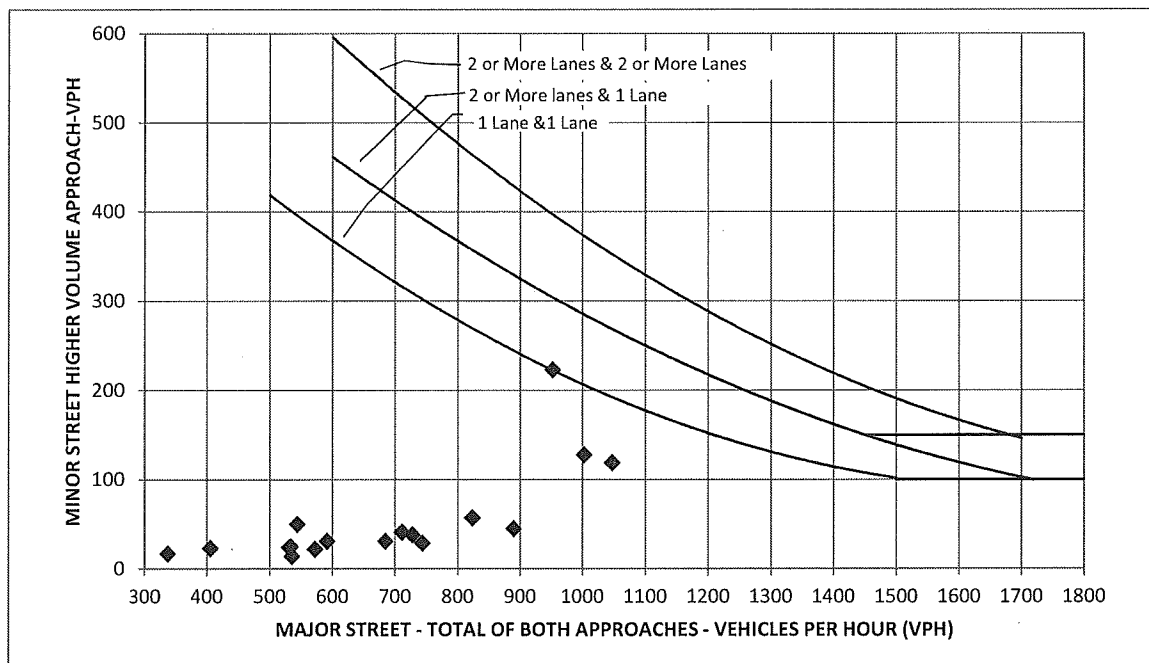
How Many Hours Are Met	1
Is Warrant 2 (100%) Met?	NO

Michigan Manual of Uniform Traffic Control Devices			
Worksheet for Signal Warrants (Section 4C)			
WARRANT 3 A: Peak-Hour Vehicular Volume			
Spot Number:	0		
Intersection:	Joslyn Ave @ Kennett St		
Date	5/15/2017	by	NN
NOT MET	0	: Total Stop Time Delay (hrs)	
	3	: Minor Street Approach Lanes	
	4	: Total Approaches	
NOT MET	12	: Minor Approach Volume	
NOT MET	82	: Total Entering Volume	
	03:00 - 04:00 : Peak Hour		
Is Warrant 3 A Met?			NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 3 B(100%): Peak-Hour Vehicular Volume

Spot Number:	0
Intersection:	Joslyn Ave @ Kennett St
Date	5/15/2017 by NN

3	: No. of Lanes on Major St.
3	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

Is Warrant 3 B (100%) Met?

NO

Michigan Manual of Uniform Traffic Control Devices

Worksheet for Signal Warrants (Section 4C)

WARRANT 4 (100%): Four-Hour Pedestrian Volume

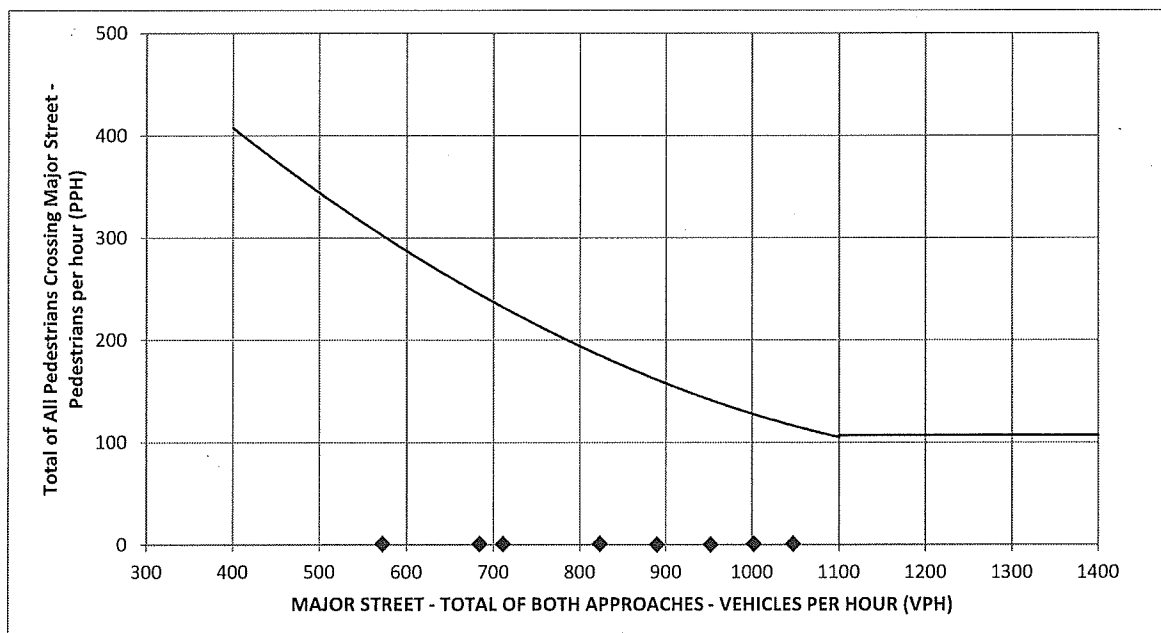
Spot Number: 0

Intersection: Joslyn Ave @ Kennett St

Date: 5/15/2017

by: NN

680	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

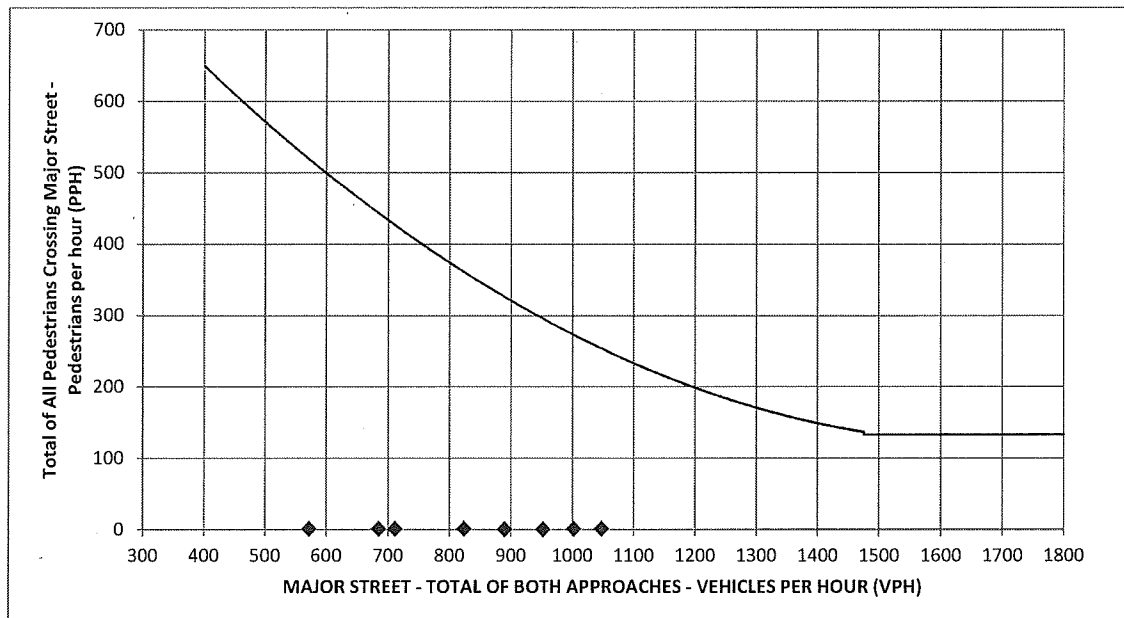
Is Warrant 4 B (100%): Four Hour Met?

NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 4 (100%): Peak-Hour Pedestrian Volume

Spot Number:	0
Intersection:	Joslyn Ave @ Kennett St
Date:	5/15/2017 by NN

680	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

Is Warrant 4 B (100%): Peak Hour Met?

NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 7: Crash Experience

Spot Number:	0
Intersection:	Joslyn Ave @ Kennett St
Date	5/15/2017 by NN

3	: No. of Lanes on Major St?
3	: No. of Lanes on Minor St?
NO	: Has adequate trial of remedial measure with adequate enforcement been tried?
NO	: Are there 5 or more Crashes Susceptable to Correction by Signalization in a 12 Month Period?

	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?
Time	N-S	E-W						
00:01 - 01:00	112	4	480	160	NO	720	80	NO
01:00 - 02:00	70	2	480	160	NO	720	80	NO
02:00 - 03:00	46	2	480	160	NO	720	80	NO
03:00 - 04:00	70	12	480	160	NO	720	80	NO
04:00 - 05:00	89	10	480	160	NO	720	80	NO
05:00 - 06:00	212	54	480	160	NO	720	80	NO
06:00 - 07:00	543	50	480	160	NO	720	80	NO
07:00 - 08:00	823	57	480	160	NO	720	80	NO
08:00 - 09:00	711	41	480	160	NO	720	80	NO
09:00 - 10:00	533	25	480	160	NO	720	80	NO
10:00 - 11:00	535	14	480	160	NO	720	80	NO
11:00 - 12:00	572	22	480	160	NO	720	80	NO
12:00 - 13:00	684	31	480	160	NO	720	80	NO
13:00 - 14:00	743	29	480	160	NO	720	80	NO
14:00 - 15:00	889	45	480	160	NO	720	80	NO
15:00 - 16:00	1047	119	480	160	NO	720	80	YES
16:00 - 17:00	952	223	480	160	YES	720	80	YES
17:00 - 18:00	1002	128	480	160	NO	720	80	YES
18:00 - 19:00	727	38	480	160	NO	720	80	NO
19:00 - 20:00	591	31	480	160	NO	720	80	NO
20:00 - 21:00	530	24	480	160	NO	720	80	NO
21:00 - 22:00	405	23	480	160	NO	720	80	NO
22:00 - 23:00	337	17	480	160	NO	720	80	NO
23:00 - 00:00	232	11	480	160	NO	720	80	NO

Is there a reduction in the warrant thresholds to 56% = NO
 Number of Hours that met the warrant 7A = 1
 Number of Hours that met the warrant 7B = 3

A. Is the Minimum Vehicular Volume Warrant Met Based on Crash Patterns? (Condition A)

NO

B. Is the Interruption of Continuous Traffic Met Based on Crash Patterns? (Condition B)

NO

RECEIVED
MAY 18 PM 3:02
PONTIAC CITY CLERK

August 15, 2017

City of Pontiac
Department of Public Works – Engineering Division
47450 Woodward Avenue
Pontiac, Michigan 48342

Attn: John Balint, P.E.

Re: Proposal for Engineering Services
Traffic Signal Warrant Analysis for City of Pontiac

HRC Job No. 20170662

Dear Mr. Balint:

At your request, Hubbell, Roth, & Clark, Inc. (HRC) has prepared a traffic signal warrant analysis to determine if the intersection of Martin Luther King Jr. Boulevard and Valencia Drive warrants a traffic signal. Martin Luther King Jr. Boulevard and Valencia Drive are under the jurisdiction of the City of Pontiac and any changes will need to be approved by them prior to implementation.

To complete the traffic signal warrant analysis, HRC undertook the following tasks:

- Collected 24 hour counts for the approaching roadways.
- Conducted a traffic signal warrant study using standard formats from the Michigan Department of Transportation (MDOT) and Road Commission for Oakland County (RCOC).
- Summarized the traffic signal warrant study in a letter report.

Study Area

The City of Pontiac is looking to determine if a traffic signal at the intersection of Martin Luther King Jr. Boulevard and Valencia Drive is required. The intersection formerly operated with a four-way traffic signal, but recently designated a flashing yellow light for traffic along Martin Luther King Jr. Boulevard and a flashing red light for Valencia Drive. The nearest traffic signals are approximately 1,100 feet northwest and 1,500 feet southeast of the study area.

The land use surrounding the study area is primarily residential. There are houses along both Martin Luther King Jr. Boulevard and Valencia Drive and a townhouse community northeast of the study area. The study area is shown in **Figure 1**.

PRINCIPALS

Daniel W. Mitchell | Nancy M.D. Faught
Keith D. McCormack | Jesse B. VanDeCreek
Roland N. Alix | Michael C. MacDonald
James F. Burton | Charles E. Hart

SENIOR ASSOCIATES

Gary J. Tressel | Randal L. Ford
William R. Davis | Dennis J. Benoit
Robert F. DeFrain | Thomas D. LaCross
Albert P. Mickalich | Timothy H. Sullivan
Thomas G. Maxwell

ASSOCIATES

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Donna M. Martin | Colleen L. Hill-Stramsak
Bradley W. Shepler | Karyn M. Stickel
Jane M. Graham | Todd J. Sneathen
Aaron A. Uranga | Salvatore Conigliaro

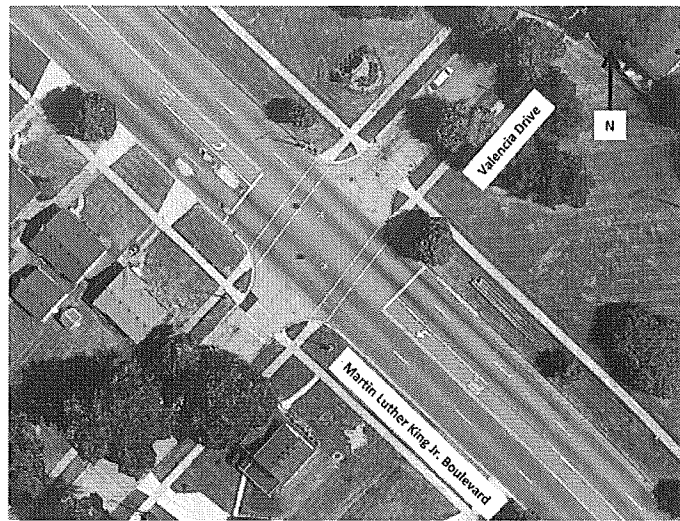


Figure 1: Study Area

Roadway Conditions

The study area covers the intersection of Martin Luther King Jr. Boulevard and Valencia Drive. Martin Luther King Jr. Boulevard is a northwest-southeast, five-lane roadway with a center left-turn lane and curb and gutter. It is classified as a principal arterial and has a posted speed limit of 35 miles per hour (MPH). Valencia Drive is a northeast-southwest, two-lane roadway with a speed limit of 25 MPH. For simplicity, however, the attachments and text included in this report will denote Martin Luther King Jr. Boulevard as north-south and Valencia Drive as east-west.

Existing Traffic Volumes

24-hour turning movement counts were collected at the study area on Wednesday, August 2, 2017. The complete turning movement count reports can be found in **Attachment A**.

Non-Motorized Traffic Conditions

There are currently no public transit services within the study area. Both sidewalks and crosswalks exist throughout the studied area. Pedestrians crossing any of the four legs at the study area were counted and are included in the complete turning movement count reports in **Attachment A**.

Traffic Signal Warrant Analysis

Traffic control signals should not be installed unless one or more of the signal warrants in the Michigan Manual on Uniform Traffic Control Devices (MMUTCD) are met. Information should be obtained by means of engineering studies and compared with the requirements set forth in the warrants. If the requirements are not met, traffic signals should not be put in operation. When a traffic control signal is indicated as being warranted, it is presumed the signal and all related traffic control devices and markings are installed according to the standards set forth in the MMUTCD.

A traffic signal warrant analysis was performed at the study area. An investigation of the need for a traffic signal included, where applicable, an analysis of the factors contained in the following nine warrants:

- Warrant 1: Eight-Hour Vehicular Volume
- Warrant 2: Four-Hour Vehicular Volume
- Warrant 3: Peak Hour
- Warrant 4: Pedestrian Volume
- Warrant 5: School Crossing
- Warrant 6: Coordinated Signal System
- Warrant 7: Crash Experience
- Warrant 8: Roadway Network
- Warrant 9: Intersection Near a Grade Crossing

A summary of the traffic warrant analysis is shown in **Table 1**. The study area failed to meet any of the nine signal warrants. Warrant 5 related to school crossings and Warrant 9 related to rail crossings were not applicable. It also should be noted Warrant 7 was not able to be fully analyzed since the crash data base includes crashes from when the existing traffic signal was in operation, but it would not have met the warrant, regardless, since it does not meet the volume criteria. The complete analysis can be found in **Attachment B**.

Table 1: Traffic Signal Warrant Analysis Summary

Warrant		Martin Luther King Jr. Boulevard and Valencia Drive
		Warrant Met
Warrant 1: Eight-Hour Vehicular Volume	Condition A	No
	Condition B	No
	Combination of A & B	N/A
Warrant 2: Four-Hour Vehicular Volume		No
Warrant 3: Peak Hour		No
Warrant 4: Pedestrian Volume		No
Warrant 5: School Crossing		N/A
Warrant 6: Coordinated Signal System		No
Warrant 7: Crash Experience		No
Warrant 8: Roadway Network		No
Warrant 9: Intersection Near a Grade Crossing		N/A

Conclusions and Recommendations

Based on the traffic signal warrant analysis, HRC has concluded the studied intersection does not warrant a traffic signal. The City of Pontiac has already placed the signal in flash mode and HRC recommends keeping it in flash mode for at least 90 days to evaluate the intersection operations under conditions that simulate a permanent traffic signal removal. The Road Commission for Oakland County also requires executed removal agreements along with a city council resolution to remove the signal. If you would like HRC to help prepare the resolution, please let us know.

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

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

Nicholas Nicita

Nicholas Nicita, PE, LEED AP
Staff Engineer

NBN/lfm

Attachments: A – 24-Hour Turning Movement Counts
 B – Signal Warrant Analysis

pc: HRC; File



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

Attachment A: 24-Hour Turning Movement Counts

Hubbell, Roth & Clark, Inc.
555 Hulet Drive

Bloomfield Hills, Michigan, United States 48302
248.454.6300 nnicita@hrc-engr.com

Count Name: Pontiac Traffic Signal Warrant
Analysis
Site Code: 20170662
Start Date: 08/02/2017
Page No: 1
Intersection: Martin Luther King Jr Blvd and Valencia Dr

Turning Movement Data

Start Time	Martin Luther King Southbound						Valencia Westbound						Martin Luther King Northbound						Valencia Eastbound						Int. Total
	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	
12:00 AM	0	60	0	0	0	60	2	1	0	0	0	3	0	47	1	0	1	48	3	0	0	0	2	3	114
12:15 AM	0	45	0	0	0	45	3	0	0	0	0	3	0	48	3	0	0	51	0	0	0	0	2	0	99
12:30 AM	1	46	1	0	0	48	1	0	0	0	0	1	0	29	2	0	0	31	0	0	1	0	0	1	81
12:45 AM	0	17	1	0	1	18	1	1	0	0	0	2	1	34	2	0	0	37	0	1	0	0	1	1	58
Hourly Total	1	168	2	0	1	171	7	2	0	0	0	9	1	158	8	0	1	167	3	1	1	0	5	5	352
1:00 AM	0	26	0	0	0	26	0	0	0	0	0	0	0	30	1	0	0	31	0	0	1	0	1	1	58
1:15 AM	1	20	0	0	0	21	1	0	0	0	1	1	0	20	0	0	0	20	1	0	0	0	1	1	43
1:30 AM	0	23	0	0	0	23	0	1	0	0	2	1	0	24	3	0	0	27	0	1	0	0	0	1	52
1:45 AM	0	21	0	0	0	21	0	0	0	0	0	0	0	16	3	0	0	19	0	0	0	0	0	0	40
Hourly Total	1	90	0	0	0	91	1	1	0	0	3	2	0	90	7	0	0	97	1	1	1	0	2	3	193
2:00 AM	0	18	0	0	0	18	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0	0	0	38
2:15 AM	0	12	0	0	0	12	0	0	0	0	0	0	0	10	0	0	0	10	0	0	1	0	0	1	23
2:30 AM	0	28	0	0	0	28	0	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	46
2:45 AM	1	23	0	0	0	24	0	0	0	0	0	0	0	15	0	0	0	15	0	0	0	0	0	0	39
Hourly Total	1	81	0	0	0	82	0	0	0	0	0	0	0	63	0	0	0	63	0	0	1	0	0	1	146
3:00 AM	0	22	0	0	0	22	0	0	0	0	0	0	0	19	1	0	2	20	0	0	0	0	0	0	42
3:15 AM	0	10	1	0	0	11	0	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	29
3:30 AM	3	19	0	0	0	22	0	0	2	0	0	2	0	15	0	0	0	15	1	0	0	0	0	1	40
3:45 AM	0	12	0	0	0	12	1	0	0	0	0	1	1	16	0	0	0	17	0	0	0	0	0	0	30
Hourly Total	3	63	1	0	0	67	1	0	2	0	0	3	1	68	1	0	2	70	1	0	0	0	0	1	141
4:00 AM	0	17	0	0	0	17	0	0	1	0	0	1	0	14	0	0	0	14	0	0	0	0	0	0	32
4:15 AM	0	18	0	0	0	18	1	0	0	0	0	1	0	10	0	0	0	10	0	0	0	0	0	0	29
4:30 AM	0	20	0	0	0	20	0	0	0	0	0	0	0	32	1	0	0	33	0	0	0	0	0	0	53
4:45 AM	0	23	0	0	0	23	1	1	0	0	0	2	0	34	0	0	0	34	0	1	1	0	0	2	61
Hourly Total	0	78	0	0	0	78	2	1	1	0	0	4	0	90	1	0	0	91	0	1	1	0	0	2	175
5:00 AM	0	21	0	0	0	21	0	0	0	0	0	0	0	25	0	0	0	25	0	0	0	0	0	0	46
5:15 AM	0	37	0	0	0	37	4	0	0	0	0	4	0	45	0	0	0	45	0	0	0	0	1	0	86
5:30 AM	0	59	0	0	0	59	1	0	1	0	0	2	0	108	0	0	0	108	0	0	0	0	0	0	169
5:45 AM	1	48	0	0	0	49	5	0	2	0	0	7	0	116	0	0	0	116	0	1	0	0	0	1	173
Hourly Total	1	165	0	0	0	166	10	0	3	0	0	13	0	294	0	0	0	294	0	1	0	0	1	1	474
6:00 AM	1	78	0	0	0	79	0	0	1	0	0	1	0	58	0	0	0	58	0	0	1	0	1	1	139
6:15 AM	0	92	0	0	0	92	1	0	0	0	0	1	0	82	0	0	0	82	0	0	1	0	0	1	176
6:30 AM	0	181	0	0	0	181	3	0	0	0	1	3	0	120	1	0	0	121	0	0	1	0	0	1	306
6:45 AM	0	140	0	0	0	140	1	0	0	0	0	1	0	166	2	0	0	168	1	0	0	0	0	1	310
Hourly Total	1	491	0	0	0	492	5	0	1	0	1	6	0	426	3	0	0	429	1	0	3	0	1	4	931
7:00 AM	0	167	0	0	0	167	2	0	0	0	0	2	0	123	0	0	0	123	1	0	0	0	0	1	293
7:15 AM	1	174	1	0	0	176	4	0	2	0	0	6	0	126	1	0	0	127	0	1	0	0	0	1	310
7:30 AM	0	201	0	0	0	201	1	0	3	0	0	4	0	134	0	0	0	134	1	0	0	0	1	1	340
7:45 AM	1	189	0	0	0	190	6	0	0	0	3	6	0	151	2	0	0	153	0	0	1	0	1	1	350
Hourly Total	2	731	1	0	0	734	13	0	5	0	3	18	0	534	3	0	0	537	2	1	1	0	2	4	1293

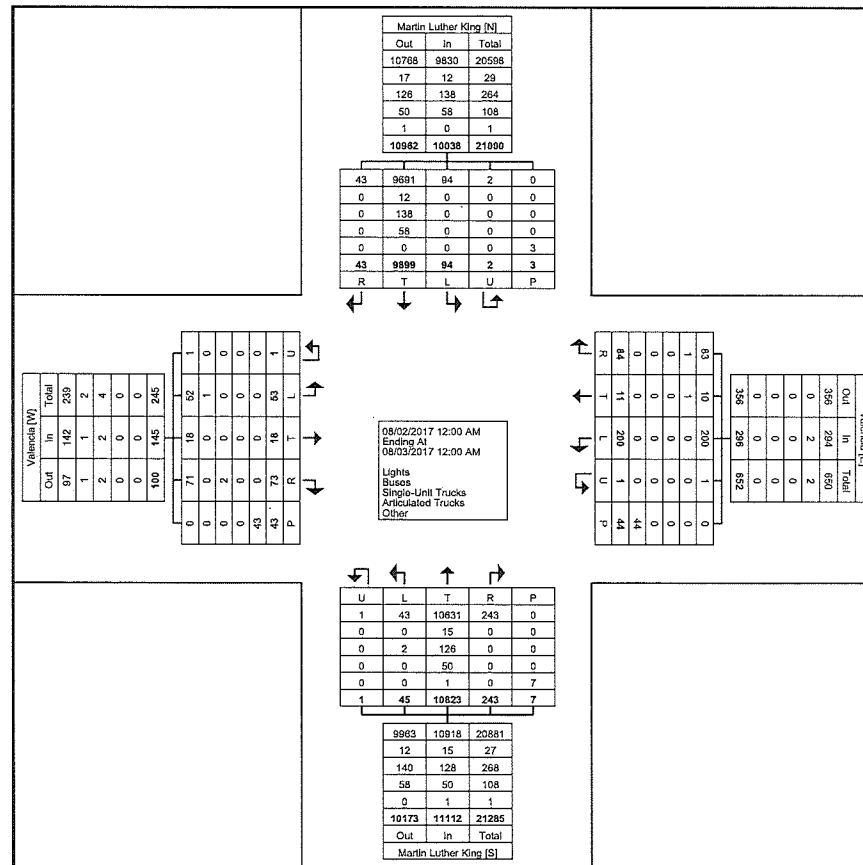
8:00 AM	0	187	0	0	0	187	3	0	1	0	2	4	0	133	1	0	0	134	0	0	0	0	0	0	325
8:15 AM	3	152	0	0	0	155	1	0	1	0	2	2	1	118	0	0	0	119	2	0	2	0	1	4	280
8:30 AM	0	150	1	0	0	151	4	1	0	0	1	5	0	122	0	0	0	122	1	1	3	0	0	5	283
8:45 AM	0	117	0	0	0	117	3	0	0	0	2	3	0	105	1	0	0	106	1	0	1	0	0	2	228
Hourly Total	3	606	1	0	0	610	11	1	2	0	7	14	1	478	2	0	0	481	4	1	6	0	1	11	1116
9:00 AM	4	114	0	0	0	118	0	0	1	0	2	1	1	124	1	0	0	126	0	0	1	0	1	1	246
9:15 AM	0	89	0	0	0	89	2	0	0	0	2	2	0	100	2	0	1	102	0	1	1	1	2	3	196
9:30 AM	2	85	0	0	0	87	4	0	1	0	0	5	1	94	3	0	0	98	1	0	0	0	2	1	191
9:45 AM	0	88	0	0	0	88	0	0	2	0	0	2	0	89	0	0	0	89	1	0	0	0	0	1	180
Hourly Total	6	376	0	0	0	382	6	0	4	0	4	10	2	407	6	0	1	415	2	1	2	1	5	6	813
10:00 AM	1	101	1	0	0	103	3	0	1	0	2	4	3	99	2	0	0	104	0	0	2	0	1	2	213
10:15 AM	0	94	2	0	1	96	1	0	0	0	1	1	0	103	2	0	0	105	1	0	1	0	1	2	204
10:30 AM	0	88	0	0	0	88	2	0	1	0	0	3	0	81	3	0	0	84	0	0	2	0	0	2	177
10:45 AM	0	81	2	0	0	83	1	0	0	0	1	1	0	102	0	0	0	102	0	0	1	0	5	1	187
Hourly Total	1	364	5	0	1	370	7	0	2	0	4	9	3	385	7	0	0	395	1	0	6	0	7	7	781
11:00 AM	4	111	1	0	1	116	4	0	1	0	1	5	0	115	1	0	0	116	0	0	0	0	1	0	237
11:15 AM	0	100	1	0	0	101	3	0	3	0	1	6	1	97	0	0	0	98	0	0	0	0	0	0	205
11:30 AM	0	95	1	0	0	96	2	0	1	0	1	3	0	106	5	0	0	111	1	0	1	0	0	2	212
11:45 AM	2	113	2	0	0	117	2	0	4	0	1	6	0	91	3	0	0	94	2	0	2	0	0	4	221
Hourly Total	6	419	5	0	1	430	11	0	9	0	4	20	1	409	9	0	0	419	3	0	3	0	1	6	875
12:00 PM	0	129	1	0	0	130	1	0	0	0	0	1	0	131	5	0	0	136	0	0	1	0	0	1	268
12:15 PM	2	117	1	0	0	120	1	0	1	0	5	2	1	138	1	0	0	140	0	0	3	0	1	3	265
12:30 PM	0	118	1	0	0	119	8	0	1	0	0	9	1	137	3	0	0	141	0	0	2	0	0	2	271
12:45 PM	1	111	1	0	0	113	1	0	0	0	0	1	1	143	7	0	0	151	3	0	5	0	0	8	273
Hourly Total	3	475	4	0	0	482	11	0	2	0	5	13	3	549	16	0	0	568	3	0	11	0	1	14	1077
1:00 PM	0	121	0	1	0	122	4	0	1	0	0	5	1	120	3	0	0	124	1	0	2	0	0	3	254
1:15 PM	0	122	1	1	0	124	2	0	1	0	0	3	0	143	1	0	0	144	1	0	1	0	0	2	273
1:30 PM	0	121	1	0	0	122	5	0	1	0	2	6	0	132	4	0	0	136	0	0	1	0	0	1	265
1:45 PM	4	134	2	0	0	140	2	0	0	0	2	2	2	174	5	0	0	181	1	0	1	0	2	2	325
Hourly Total	4	498	4	2	0	508	13	0	3	0	4	16	3	569	13	0	0	585	3	0	5	0	2	8	1117
2:00 PM	4	172	0	0	0	176	1	1	2	0	1	4	2	162	2	0	0	166	2	0	1	0	2	3	349
2:15 PM	2	191	1	0	0	194	3	0	2	0	2	5	1	151	4	0	0	156	1	0	1	0	0	2	357
2:30 PM	1	197	2	0	0	200	2	0	1	0	0	3	0	174	6	0	0	180	1	0	1	0	0	2	385
2:45 PM	4	151	0	0	0	155	4	0	1	0	0	5	1	183	1	0	0	185	3	0	0	0	0	3	348
Hourly Total	11	711	3	0	0	725	10	1	6	0	3	17	4	670	13	0	0	687	7	0	3	0	2	10	1439
3:00 PM	0	223	2	0	0	225	3	0	2	1	1	6	0	150	2	0	0	152	0	0	0	0	0	0	383
3:15 PM	2	191	1	0	0	194	6	0	2	0	0	8	1	179	4	0	0	184	1	0	0	0	1	1	387
3:30 PM	1	210	0	0	0	211	2	0	0	0	1	2	1	196	4	0	0	201	0	1	1	0	0	2	416
3:45 PM	2	127	0	0	0	129	4	1	0	0	0	5	0	195	5	0	1	200	1	0	0	0	0	1	335
Hourly Total	5	751	3	0	0	759	15	1	4	1	2	21	2	720	15	0	1	737	2	1	1	0	1	4	1521
4:00 PM	0	138	0	0	0	138	0	0	2	0	0	2	0	253	5	0	0	258	0	1	2	0	0	3	401
4:15 PM	0	167	0	0	0	167	2	0	1	0	0	3	0	248	5	0	0	253	2	0	1	0	0	3	426
4:30 PM	3	195	2	0	0	200	0	0	1	0	0	1	0	291	4	0	0	295	1	0	1	0	2	2	498
4:45 PM	5	212	0	0	0	217	2	0	2	0	1	4	3	310	1	1	0	315	0	1	1	0	0	2	538
Hourly Total	8	712	2	0	0	722	4	0	6	0	1	10	3	1102	15	1	0	1121	3	2	5	0	2	10	1863
5:00 PM	1	189	2	0	0	192	3	0	0	0	0	3	6	341	9	0	0	356	1	0	1	0	2	2	553
5:15 PM	2	203	0	0	0	205	3	0	0	0	0	3	3	316	6	0	0	325	1	0	2	0	0	3	536
5:30 PM	2	173	0	0	0	175	1	0	1	0	0	2	1	316	5	0	0	322	0	0	1	0	0	1	500
5:45 PM	1	151	0	0	0	152	5	0	0	0	0	5	0	246	4	0	0	250	1	0	1	0	1	2	409
Hourly Total	6	716	2	0	0	724	12	0	1	0	0	13	10	1219	24	0	0	1253	3	0	5	0	3	8	1998
6:00 PM	1	149	0	0	0	150	3	0	1	0	2	4	0	195	7	0	1	202	1	0	2	0	0	3	359
6:15 PM	2	137	2	0	0	141	4	0	3	0	0	7	0	193	4	0	0	197	2	0	0	0	0	2	347

6:30 PM	4	129	1	0	0	134	2	0	0	0	0	2	0	174	7	0	0	181	3	0	0	0	0	3	320
6:45 PM	3	139	0	0	0	142	3	0	4	0	0	7	1	145	2	0	0	148	1	0	3	0	2	4	301
Hourly Total	10	554	3	0	0	567	12	0	8	0	2	20	1	707	20	0	1	728	7	0	5	0	2	12	1327
7:00 PM	0	150	0	0	0	150	3	0	2	0	0	5	1	157	4	0	0	162	1	2	1	0	0	4	321
7:15 PM	2	148	0	0	0	150	3	0	2	0	0	5	1	123	7	0	0	131	1	1	0	0	1	2	288
7:30 PM	0	114	0	0	0	114	1	0	2	0	0	3	0	118	4	0	0	122	0	0	0	0	1	0	239
7:45 PM	1	126	1	0	0	128	3	0	0	0	0	3	0	133	8	0	0	141	0	0	0	0	0	0	272
Hourly Total	3	538	1	0	0	542	10	0	6	0	0	16	2	531	23	0	0	556	2	3	1	0	2	6	1120
8:00 PM	1	108	1	0	0	110	5	0	4	0	0	9	2	120	6	0	0	128	0	1	1	0	0	2	249
8:15 PM	3	121	0	0	0	124	2	0	1	0	0	3	1	110	0	0	0	111	1	1	3	0	0	5	243
8:30 PM	1	105	0	0	0	106	1	0	3	0	0	4	1	113	4	0	1	118	1	0	1	0	0	2	230
8:45 PM	1	100	1	0	0	102	1	0	0	0	0	1	1	106	3	0	0	110	1	0	2	0	0	3	216
Hourly Total	6	434	2	0	0	442	9	0	8	0	0	17	5	449	13	0	1	467	3	2	7	0	0	12	938
9:00 PM	4	91	1	0	0	96	4	1	1	0	0	6	0	98	7	0	0	105	0	1	2	0	1	3	210
9:15 PM	2	92	0	0	0	94	5	0	0	0	1	5	1	93	2	0	0	96	0	0	0	0	0	0	195
9:30 PM	1	80	0	0	0	81	2	0	4	0	0	6	0	108	5	0	0	113	0	0	0	0	0	0	200
9:45 PM	2	67	0	0	0	69	4	0	2	0	0	6	1	93	3	0	0	97	0	1	0	0	1	1	173
Hourly Total	9	330	1	0	0	340	15	1	7	0	1	23	2	392	17	0	0	411	0	2	2	0	2	4	778
10:00 PM	1	83	1	0	0	85	2	2	1	0	0	5	0	87	5	0	0	92	1	0	1	0	0	2	184
10:15 PM	0	85	0	0	0	85	1	0	0	0	0	1	0	76	7	0	0	83	0	0	0	0	1	0	169
10:30 PM	0	76	1	0	0	77	4	1	1	0	0	6	0	72	3	0	0	75	0	0	1	0	0	1	159
10:45 PM	1	58	0	0	0	59	3	0	0	0	0	3	0	70	1	0	0	71	0	0	1	0	0	1	134
Hourly Total	2	302	2	0	0	306	10	3	2	0	0	15	0	305	16	0	0	321	1	0	3	0	1	4	646
11:00 PM	1	71	0	0	0	72	2	0	1	0	0	3	0	47	2	0	0	49	0	0	0	0	0	0	124
11:15 PM	0	67	1	0	0	68	1	0	0	0	0	1	1	57	4	0	0	62	0	0	0	0	0	0	131
11:30 PM	0	63	0	0	0	63	2	0	0	0	0	2	0	57	2	0	0	59	0	1	0	0	0	1	125
11:45 PM	0	45	0	0	0	45	0	0	1	0	0	1	0	47	3	0	0	50	1	0	0	0	0	1	97
Hourly Total	1	246	1	0	0	248	5	0	2	0	0	7	1	208	11	0	0	220	1	1	0	0	0	2	477
Grand Total	94	9899	43	2	3	10038	200	11	84	1	44	296	45	10823	243	1	7	11112	53	18	73	1	43	145	21591
Approach %	0.9	98.6	0.4	0.0	-	-	67.6	3.7	28.4	0.3	-	-	0.4	97.4	2.2	0.0	-	-	36.6	12.4	50.3	0.7	-	-	-
Total %	0.4	45.8	0.2	0.0	-	46.5	0.9	0.1	0.4	0.0	-	1.4	0.2	50.1	1.1	0.0	-	51.5	0.2	0.1	0.3	0.0	-	0.7	-
Lights	94	9691	43	2	-	9830	200	10	83	1	-	294	43	10631	243	1	-	10918	52	18	71	1	-	142	21184
% Lights	100.0	97.9	100.0	100.0	-	97.9	100.0	90.9	98.8	100.0	-	99.3	95.6	98.2	100.0	100.0	-	98.3	98.1	100.0	97.3	100.0	-	97.9	98.1
Buses	0	12	0	0	-	12	0	1	1	0	-	2	0	15	0	0	-	15	1	0	0	0	-	1	30
% Buses	0.0	0.1	0.0	0.0	-	0.1	0.0	9.1	1.2	0.0	-	0.7	0.0	0.1	0.0	0.0	-	0.1	1.9	0.0	0.0	0.0	-	0.7	0.1
Single-Unit Trucks	0	138	0	0	-	138	0	0	0	0	-	0	2	126	0	0	-	128	0	0	2	0	-	2	268
% Single-Unit Trucks	0.0	1.4	0.0	0.0	-	1.4	0.0	0.0	0.0	0.0	-	0.0	4.4	1.2	0.0	0.0	-	1.2	0.0	0.0	2.7	0.0	-	1.4	1.2
Articulated Trucks	0	58	0	0	-	58	0	0	0	0	-	0	0	50	0	0	-	50	0	0	0	0	-	0	108
% Articulated Trucks	0.0	0.6	0.0	0.0	-	0.6	0.0	0.0	0.0	0.0	-	0.0	0.0	0.5	0.0	0.0	-	0.4	0.0	0.0	0.0	0.0	-	0.0	0.5
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0	0	-	0	1
% Bicycles on Road	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	1	-	-	-	-	-	10	-	-	-	-	-	0	-	-	-	-	-	4	-	-
% Bicycles on Crosswalk	-	-	-	-	33.3	-	-	-	-	-	22.7	-	-	-	-	-	0.0	-	-	-	-	-	9.3	-	-
Pedestrians	-	-	-	-	2	-	-	-	-	-	34	-	-	-	-	-	7	-	-	-	-	-	39	-	-
% Pedestrians	-	-	-	-	66.7	-	-	-	-	-	77.3	-	-	-	-	-	100.0	-	-	-	-	-	90.7	-	-

Hubbell, Roth & Clark, Inc.
555 Hulet Drive

Bloomfield Hills, Michigan, United States 48302
248.454.6300 nncita@hrc-engr.com

Count Name: Pontiac Traffic Signal Warrant
Analysis
Site Code: 20170662
Start Date: 08/02/2017
Page No: 4



Turning Movement Data Plot

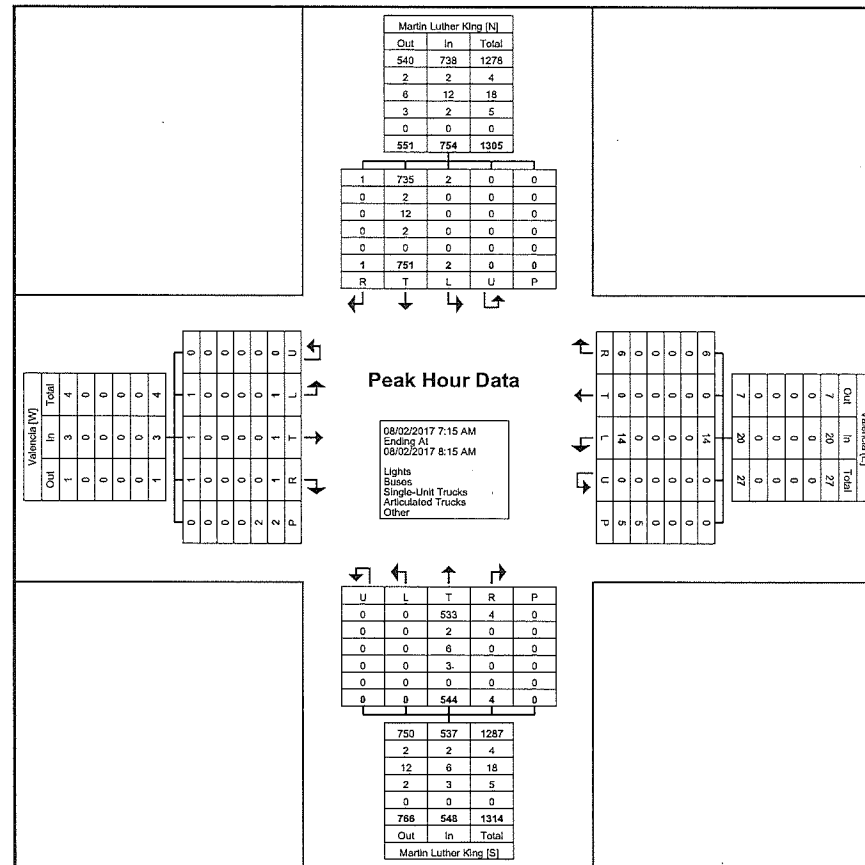
Hubbell, Roth & Clark, Inc.
555 Hulet Drive
Bloomfield Hills, Michigan, United States 48302
248.454.6300 nnicita@hrc-engr.com

Count Name: Pontiac Traffic Signal Warrant
Analysis
Site Code: 20170662
Start Date: 08/02/2017
Page No: 5

Turning Movement Peak Hour Data (7:15 AM)

Start Time	Martin Luther King Southbound						Valencia Westbound						Martin Luther King Northbound						Valencia Eastbound						Int. Total
	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	
7:15 AM	1	174	1	0	0	176	4	0	2	0	0	6	0	126	1	0	0	127	0	1	0	0	0	1	310
7:30 AM	0	201	0	0	0	201	1	0	3	0	0	4	0	134	0	0	0	134	1	0	0	0	1	1	340
7:45 AM	1	189	0	0	0	190	6	0	0	0	3	6	0	151	2	0	0	153	0	0	1	0	1	1	350
8:00 AM	0	187	0	0	0	187	3	0	1	0	2	4	0	133	1	0	0	134	0	0	0	0	0	0	325
Total	2	751	1	0	0	754	14	0	6	0	5	20	0	544	4	0	0	548	1	1	1	0	2	3	1325
Approach %	0.3	99.6	0.1	0.0	-	-	70.0	0.0	30.0	0.0	-	-	0.0	99.3	0.7	0.0	-	-	33.3	33.3	33.3	0.0	-	-	-
Total %	0.2	56.7	0.1	0.0	-	56.9	1.1	0.0	0.5	0.0	-	1.5	0.0	41.1	0.3	0.0	-	41.4	0.1	0.1	0.1	0.0	-	0.2	-
PHF	0.500	0.934	0.250	0.000	-	0.938	0.583	0.000	0.500	0.000	-	0.833	0.000	0.901	0.500	0.000	-	0.895	0.250	0.250	0.250	0.000	-	0.750	0.946
Lights	2	735	1	0	-	738	14	0	6	0	-	20	0	533	4	0	-	537	1	1	1	0	-	3	1298
% Lights	100.0	97.9	100.0	-	-	97.9	100.0	-	100.0	-	-	100.0	-	98.0	100.0	-	-	98.0	100.0	100.0	100.0	-	-	100.0	98.0
Buses	0	2	0	0	-	2	0	0	0	0	-	0	0	2	0	0	-	2	0	0	0	0	-	0	4
% Buses	0.0	0.3	0.0	-	-	0.3	0.0	-	0.0	-	-	0.0	-	0.4	0.0	-	-	0.4	0.0	0.0	0.0	-	-	0.0	0.3
Single-Unit Trucks	0	12	0	0	-	12	0	0	0	0	-	0	0	6	0	0	-	6	0	0	0	0	-	0	18
% Single-Unit Trucks	0.0	1.6	0.0	-	-	1.6	0.0	-	0.0	-	-	0.0	-	1.1	0.0	-	-	1.1	0.0	0.0	0.0	-	-	0.0	1.4
Articulated Trucks	0	2	0	0	-	2	0	0	0	0	-	0	0	3	0	0	-	3	0	0	0	0	-	0	5
% Articulated Trucks	0.0	0.3	0.0	-	-	0.3	0.0	-	0.0	-	-	0.0	-	0.6	0.0	-	-	0.5	0.0	0.0	0.0	-	-	0.0	0.4
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	2	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	40.0	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	-	0	-	-	-	-	-	3	-	-	-	-	-	0	-	-	-	-	-	2	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	60.0	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-

Count Name: Pontiac Traffic Signal Warrant
Analysis
Site Code: 20170662
Start Date: 08/02/2017
Page No: 6



Turning Movement Peak Hour Data Plot (7:15 AM)

Hubbell, Roth & Clark, Inc.
555 Hulet Drive
Bloomfield Hills, Michigan, United States 48302
248.454.6300 nnicita@hrc-engr.com

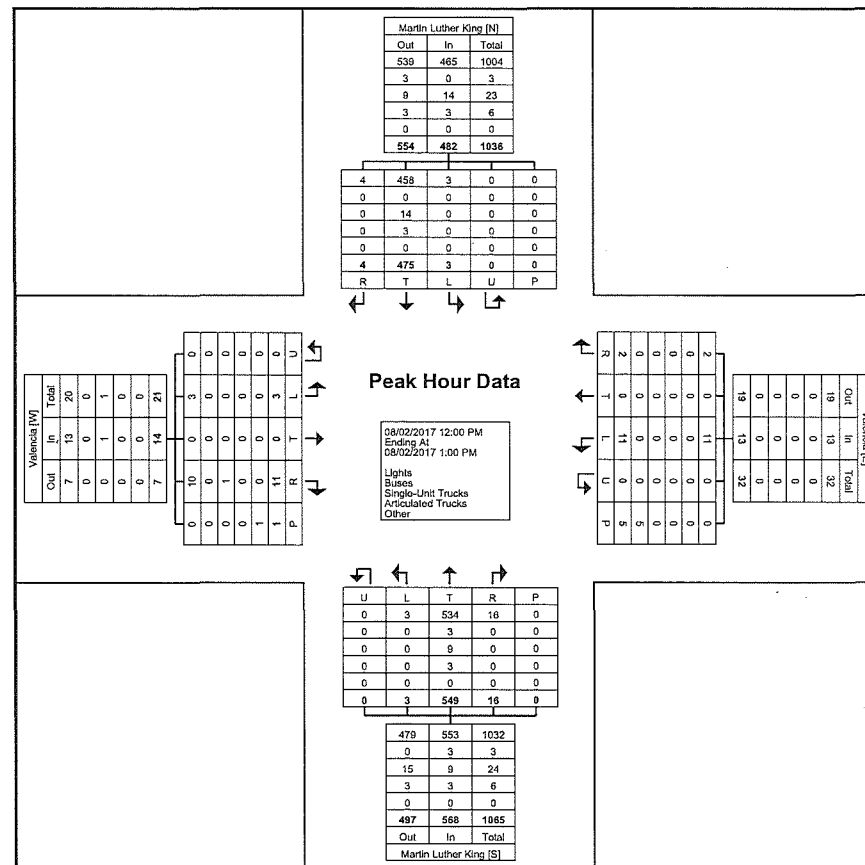
Count Name: Pontiac Traffic Signal Warrant
Analysis
Site Code: 20170662
Start Date: 08/02/2017
Page No: 7

Turning Movement Peak Hour Data (12:00 PM)

Start Time	Martin Luther King Southbound						Valencia Westbound						Martin Luther King Northbound						Valencia Eastbound						Int. Total
	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	
12:00 PM	0	129	1	0	0	130	1	0	0	0	0	1	0	131	5	0	0	136	0	0	1	0	0	1	268
12:15 PM	2	117	1	0	0	120	1	0	1	0	5	2	1	138	1	0	0	140	0	0	3	0	1	3	265
12:30 PM	0	118	1	0	0	119	8	0	1	0	0	9	1	137	3	0	0	141	0	0	2	0	0	2	271
12:45 PM	1	111	1	0	0	113	1	0	0	0	0	1	1	143	7	0	0	151	3	0	5	0	0	8	273
Total	3	475	4	0	0	482	11	0	2	0	5	13	3	549	16	0	0	568	3	0	11	0	1	14	1077
Approach %	0.6	98.5	0.8	0.0	-	-	84.6	0.0	15.4	0.0	-	-	0.5	96.7	2.8	0.0	-	-	21.4	0.0	78.6	0.0	-	-	-
Total %	0.3	44.1	0.4	0.0	-	44.8	1.0	0.0	0.2	0.0	-	1.2	0.3	51.0	1.5	0.0	-	52.7	0.3	0.0	1.0	0.0	-	1.3	-
PHF	0.375	0.921	1.000	0.000	-	0.927	0.344	0.000	0.500	0.000	-	0.361	0.750	0.960	0.571	0.000	-	0.940	0.250	0.000	0.550	0.000	-	0.438	0.986
Lights	3	458	4	0	-	465	11	0	2	0	-	13	3	534	16	0	-	553	3	0	10	0	-	13	1044
% Lights	100.0	96.4	100.0	-	-	96.5	100.0	-	100.0	-	-	100.0	100.0	97.3	100.0	-	-	97.4	100.0	-	90.9	-	-	92.9	96.9
Buses	0	0	0	0	-	0	0	0	0	0	-	0	0	3	0	0	-	3	0	0	0	0	-	0	3
% Buses	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	-	-	0.0	0.0	0.5	0.0	-	-	0.5	0.0	-	0.0	-	-	0.0	0.3
Single-Unit Trucks	0	14	0	0	-	14	0	0	0	0	-	0	0	9	0	0	-	9	0	0	1	0	-	1	24
% Single-Unit Trucks	0.0	2.9	0.0	-	-	2.9	0.0	-	0.0	-	-	0.0	0.0	1.6	0.0	-	-	1.6	0.0	-	9.1	-	-	7.1	2.2
Articulated Trucks	0	3	0	0	-	3	0	0	0	0	-	0	0	3	0	0	-	3	0	0	0	0	-	0	6
% Articulated Trucks	0.0	0.6	0.0	-	-	0.6	0.0	-	0.0	-	-	0.0	0.0	0.5	0.0	-	-	0.5	0.0	-	0.0	-	-	0.0	0.6
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	0	-	-	-
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-
Pedestrians	-	-	-	-	0	-	-	-	-	5	-	-	-	-	-	-	0	-	-	-	-	1	-	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-

Hubbell, Roth & Clark, Inc.
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Count Name: Pontiac Traffic Signal Warrant
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Turning Movement Peak Hour Data Plot (12:00 PM)

Hubbell, Roth & Clark, Inc.
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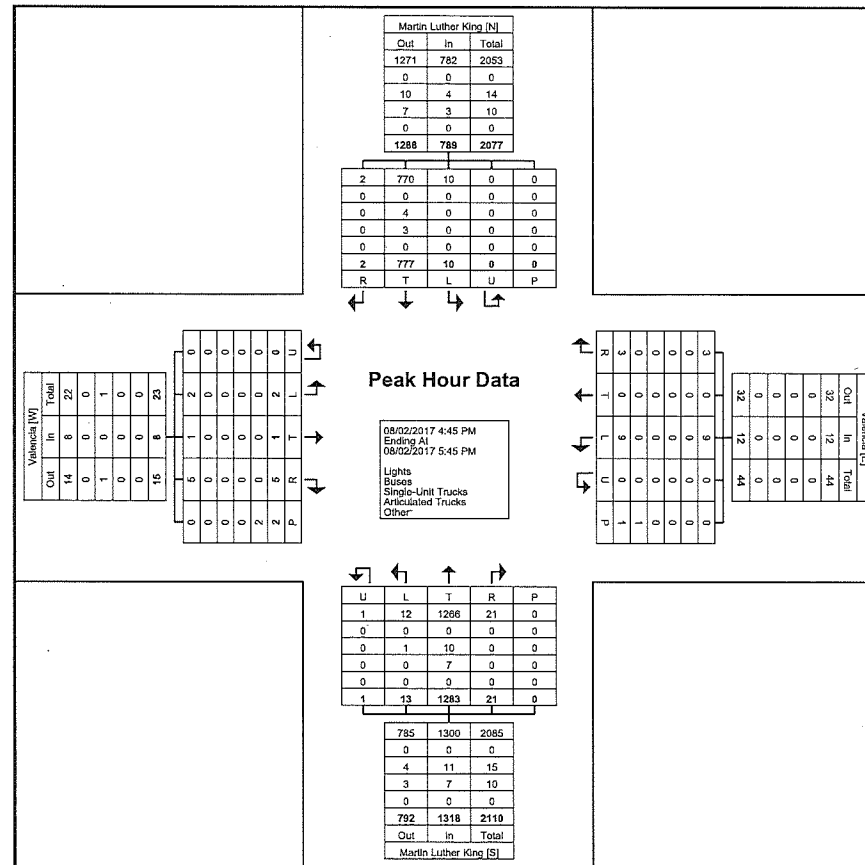
Count Name: Pontiac Traffic Signal Warrant
Analysis
Site Code: 20170662
Start Date: 08/02/2017
Page No: 9

Turning Movement Peak Hour Data (4:45 PM)

Start Time	Martin Luther King Southbound						Valencia Westbound						Martin Luther King Northbound						Valencia Eastbound						Int. Total
	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	Left	Thru	Right	U-Turn	Peds	App. Total	
4:45 PM	5	212	0	0	0	217	2	0	2	0	1	4	3	310	1	1	0	315	0	1	1	0	0	2	538
5:00 PM	1	189	2	0	0	192	3	0	0	0	0	3	6	341	9	0	0	356	1	0	1	0	2	2	553
5:15 PM	2	203	0	0	0	205	3	0	0	0	0	3	3	316	6	0	0	325	1	0	2	0	0	3	536
5:30 PM	2	173	0	0	0	175	1	0	1	0	0	2	1	316	5	0	0	322	0	0	1	0	0	1	500
Total	10	777	2	0	0	789	9	0	3	0	1	12	13	1283	21	1	0	1318	2	1	5	0	2	8	2127
Approach %	1.3	98.5	0.3	0.0	-	-	75.0	0.0	25.0	0.0	-	-	1.0	97.3	1.6	0.1	-	-	25.0	12.5	62.5	0.0	-	-	-
Total %	0.5	36.5	0.1	0.0	-	37.1	0.4	0.0	0.1	0.0	-	0.6	0.6	60.3	1.0	0.0	-	62.0	0.1	0.0	0.2	0.0	-	0.4	-
PHF	0.500	0.916	0.250	0.000	-	0.909	0.750	0.000	0.375	0.000	-	0.750	0.542	0.941	0.583	0.250	-	0.926	0.500	0.250	0.625	0.000	-	0.667	0.962
Lights	10	770	2	0	-	782	9	0	3	0	-	12	12	1266	21	1	-	1300	2	1	5	0	-	8	2102
% Lights	100.0	99.1	100.0	-	-	99.1	100.0	-	100.0	-	-	100.0	92.3	98.7	100.0	100.0	-	98.6	100.0	100.0	100.0	-	-	100.0	98.8
Buses	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Buses	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Single-Unit Trucks	0	4	0	0	-	4	0	0	0	0	-	0	1	10	0	0	-	11	0	0	0	0	-	0	15
% Single-Unit Trucks	0.0	0.5	0.0	-	-	0.5	0.0	-	0.0	-	-	0.0	7.7	0.8	0.0	0.0	-	0.8	0.0	0.0	0.0	-	-	0.0	0.7
Articulated Trucks	0	3	0	0	-	3	0	0	0	0	-	0	0	7	0	0	-	7	0	0	0	0	-	0	10
% Articulated Trucks	0.0	0.4	0.0	-	-	0.4	0.0	-	0.0	-	-	0.0	0.0	0.5	0.0	0.0	-	0.5	0.0	0.0	0.0	-	-	0.0	0.5
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	2	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-

Hubbell, Roth & Clark, Inc.
 555 Hulet Drive
 Bloomfield Hills, Michigan, United States 48302
 248.454.6300 nnicita@hrc-engr.com

Count Name: Pontiac Traffic Signal Warrant
 Analysis
 Site Code: 20170662
 Start Date: 08/02/2017
 Page No: 10



Turning Movement Peak Hour Data Plot (4:45 PM)



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

Attachment B: Signal Warrant Analysis

Michigan Manual of Uniform Traffic Control Devices
Volume Summary
Prepared by MDOT for the 2011 Edition of the MMUTCD

Spot Number:	0		
Major Street:	MLK	Minor Street:	Valencia
Intersection:	MLK @ Valencia		
City/Twp:	Pontiac		
Date Performed:	8/14/2017	Performed By:	NBN
Date Volumes Collected:	8/2/2017		

	Major NB	Major SB	Minor EB	Minor WB	Total Major	Highest Minor	Total
00:01 - 01:00	167	171	5	9	338	9	352
01:00 - 02:00	97	91	3	2	188	3	193
02:00 - 03:00	63	82	1	0	145	1	146
03:00 - 04:00	70	67	1	3	137	3	141
04:00 - 05:00	91	78	2	4	169	4	175
05:00 - 06:00	294	166	1	13	460	13	474
06:00 - 07:00	429	492	4	6	921	6	931
07:00 - 08:00	537	734	4	18	1271	18	1293
08:00 - 09:00	481	610	11	14	1091	14	1116
09:00 - 10:00	415	382	6	10	797	10	813
10:00 - 11:00	395	370	7	9	765	9	781
11:00 - 12:00	419	430	6	20	849	20	875
12:00 - 13:00	568	482	14	13	1050	14	1077
13:00 - 14:00	585	508	8	16	1093	16	1117
14:00 - 15:00	687	725	10	17	1412	17	1439
15:00 - 16:00	737	759	4	21	1496	21	1521
16:00 - 17:00	1121	722	10	10	1843	10	1863
17:00 - 18:00	1253	724	8	13	1977	13	1998
18:00 - 19:00	728	567	12	20	1295	20	1327
19:00 - 20:00	556	542	6	16	1098	16	1120
20:00 - 21:00	467	442	12	17	909	17	938
21:00 - 22:00	411	340	4	23	751	23	778
22:00 - 23:00	321	306	4	15	627	15	646
23:00 - 00:00	220	248	2	7	468	7	477
Total	11112	10038	145	296	21150	299	21591

Summary of Warrants			
Spot Number:	0		
Major Street:	MLK	Minor Street:	Valencia
Intersection:	MLK at Valencia		
City/Twp:	Pontiac		
Date Performed:	8/14/2017	Performed By:	NBN
Date Volumes Collected:	8/2/2017		
Warrant		Condition	Is Warrant Met
Data Has Been Validated			YES
WARRANT 1: Eight-Hour Vehicular Volume			NO
		Condition A	NO
		Condition B	NO
		Condition A&B	N/A
WARRANT 2: Four-Hour Vehicular Volume		(100%)	NO
WARRANT 3: Peak-Hour Vehicular Volume		(100%)	NO
		Condition A	NO
		Condition B	NO
WARRANT 4: Pedestrian Volume		(100%)	NO
		Four Hour	NO
		Peak Hour	NO
(Threshold)		HAWK	NO
(Threshold)		RRFB	NO
WARRANT 5: School Crossing			NO
WARRANT 6: Coordinated Signal System			NO
WARRANT 7: Crash Experience			NO
		Condition A	NO
		Condition B	NO
WARRANT 8: Roadway Network			NO
WARRANT 9: Intersection Near a Grade Crossing			#N/A
Issue to Be Addressed by Signalization:			
LOS and Safety			

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 1: Eight-Hour Vehicular Volume

Intersection:	MLK @ Valencia		
Date	8/14/2017	by	NBN

2	: No. of Lanes on Major St?
1	: No. of Lanes on Minor St?
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an isolated community?
0	: If answer 4 is Yes, then what is the of the population isolated community?
NO	: Have other remedial measures been tried?

USE 100% WARRANTS 1A AND 1B. DO NOT USE COMBINATION OF A & B

	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?	Combination Major A	Combination Minor A	Combination Major B	Combination Minor B	Warrant Condition A&B met?
Time	N-S	E-W											
00:01 - 01:00	338	9	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
01:00 - 02:00	188	3	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
02:00 - 03:00	145	1	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
03:00 - 04:00	137	3	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
04:00 - 05:00	169	4	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
05:00 - 06:00	460	13	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
06:00 - 07:00	921	6	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
07:00 - 08:00	1271	18	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
08:00 - 09:00	1091	14	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
09:00 - 10:00	797	10	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
10:00 - 11:00	765	9	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
11:00 - 12:00	849	20	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
12:00 - 13:00	1050	14	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
13:00 - 14:00	1093	16	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
14:00 - 15:00	1412	17	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
15:00 - 16:00	1496	21	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
16:00 - 17:00	1843	10	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
17:00 - 18:00	1977	13	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
18:00 - 19:00	1295	20	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
19:00 - 20:00	1098	16	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
20:00 - 21:00	909	17	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
21:00 - 22:00	751	23	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
22:00 - 23:00	627	15	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A
23:00 - 00:00	468	7	600	150	NO	900	75	NO	N/A	N/A	N/A	N/A	N/A

Number of Hours that met the warrant 1A = 0

Number of Hours that met the warrant 1B = 0

Number of Hours that met the warrant 1 A & B = 0

A. Is the Minimum Vehicular Volume Warrant Met? (Condition A)

NO

B. Is the Interruption of Continuous Traffic Met? (Condition B)

NO

C. Combination of Warrants A and B Criteria Met?

N/A

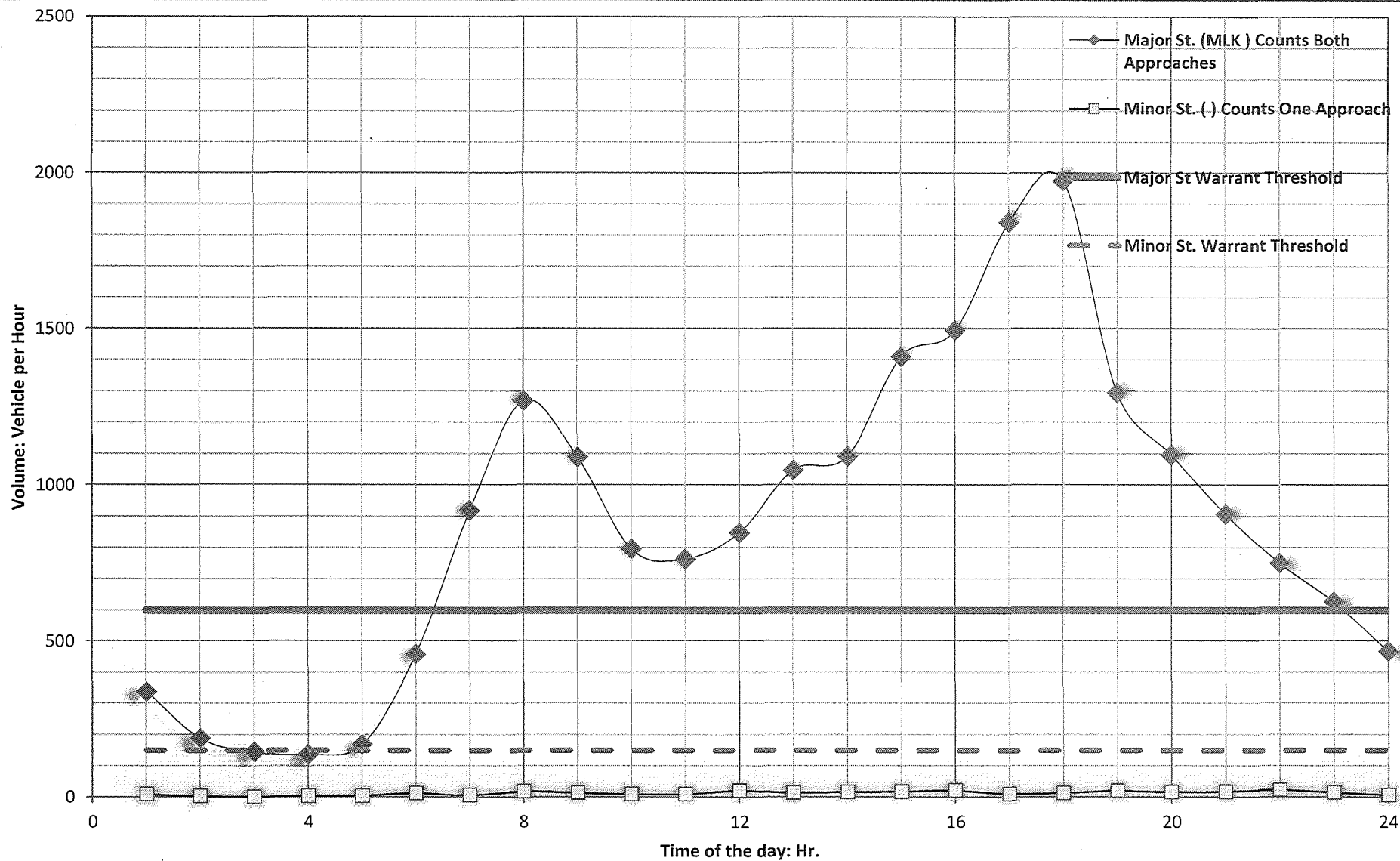


FIGURE 1: WARRANT 1A

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

MLK @ Valencia

NO. OF LANES ON MAJOR ST.? 2

NO. OF LANES ON MINOR ST.? 1

Number of Hours that met the Warrant: 0

Does this intersection meet Warrant 1A for signal installation? NO

Data Collection Date: 8/2/2017

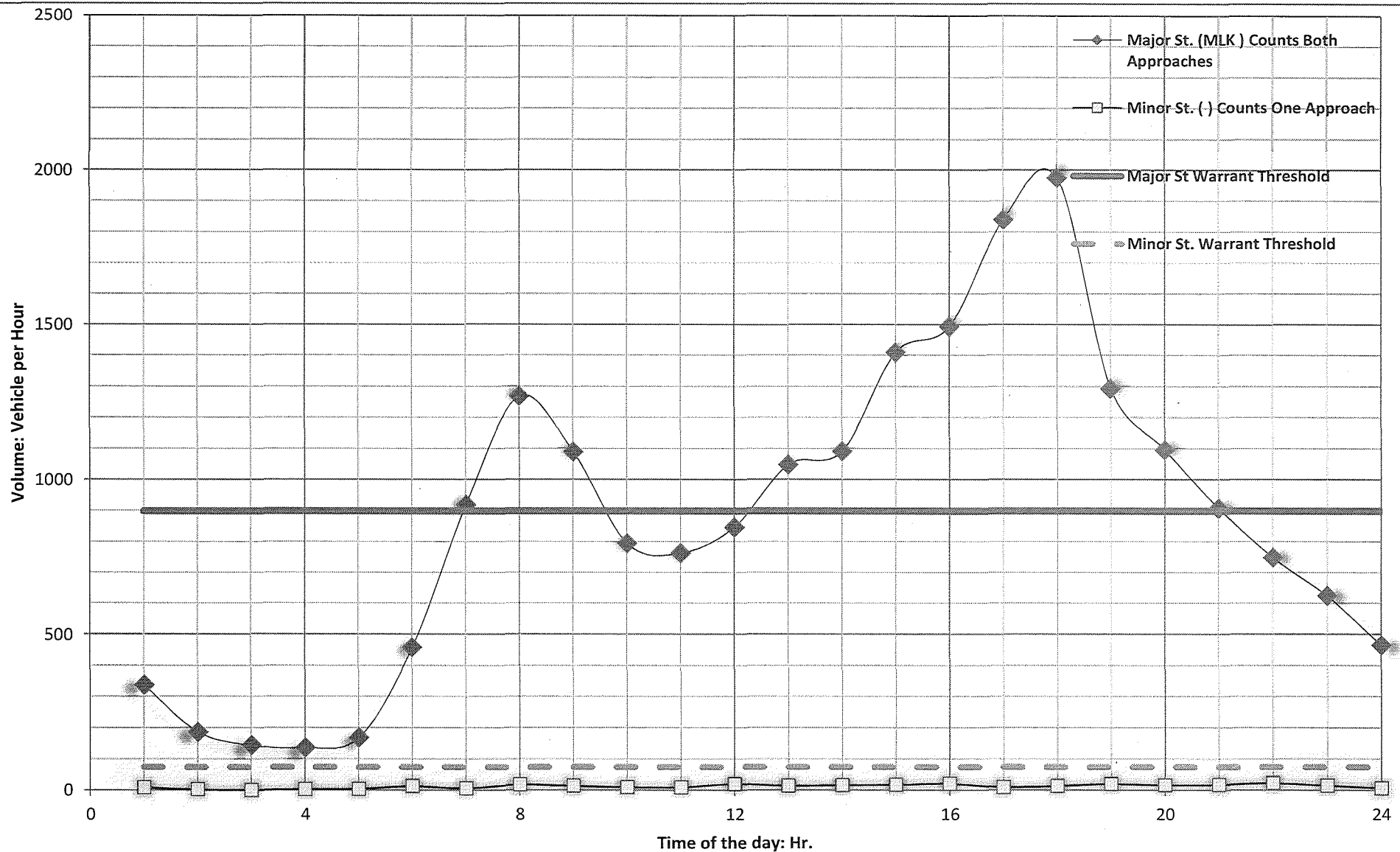


FIGURE 1: WARRANT 1B

IS THERE A REDUCTION IN THE WARRANT THRESHOLDS TO 70% ...

1- DUE TO SPEED? NO

2- DUE TO ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000? NO

Spot Number:

MLK @ Valencia

NO. OF LANES ON MAJOR ST.? 2

NO. OF LANES ON MINOR ST.? 1

Number of Hours that met the Warrant: 0

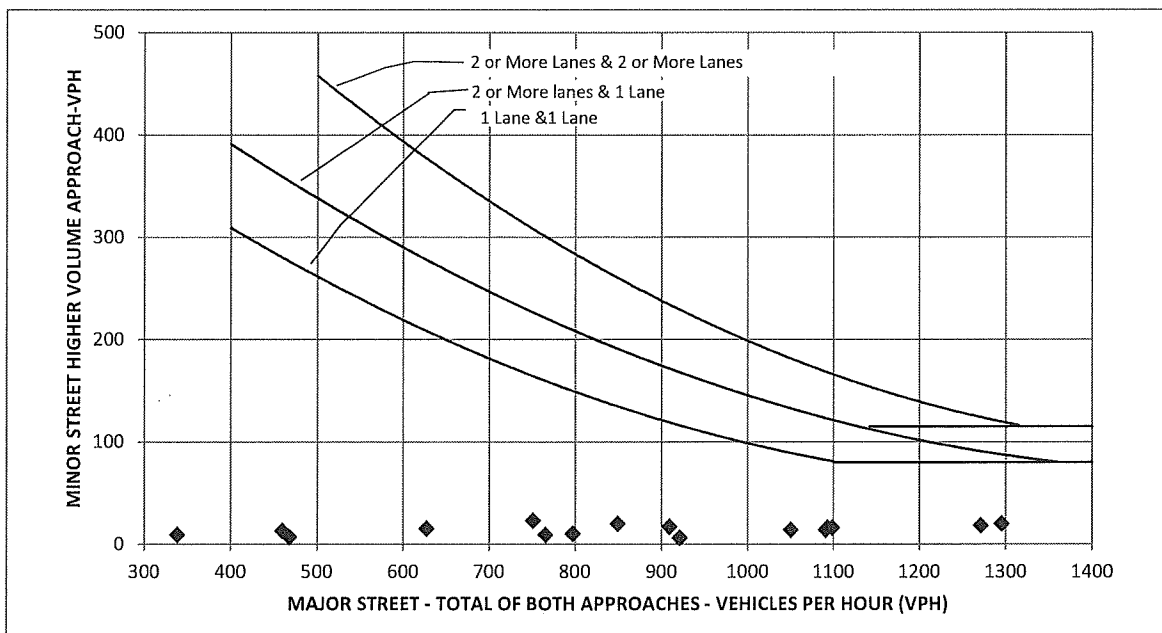
Does this intersection meet Warrant 1B for signal installation? NO

Data Collection Date: 8/2/2017

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 2: Four-Hour Vehicular Volume

Spot Number:	0
Intersection:	MLK @ Valencia
Date	8/14/2017 by NBN

2	: No. of Lanes on Major St.
1	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

Is Warrant 2 (100%) Met?

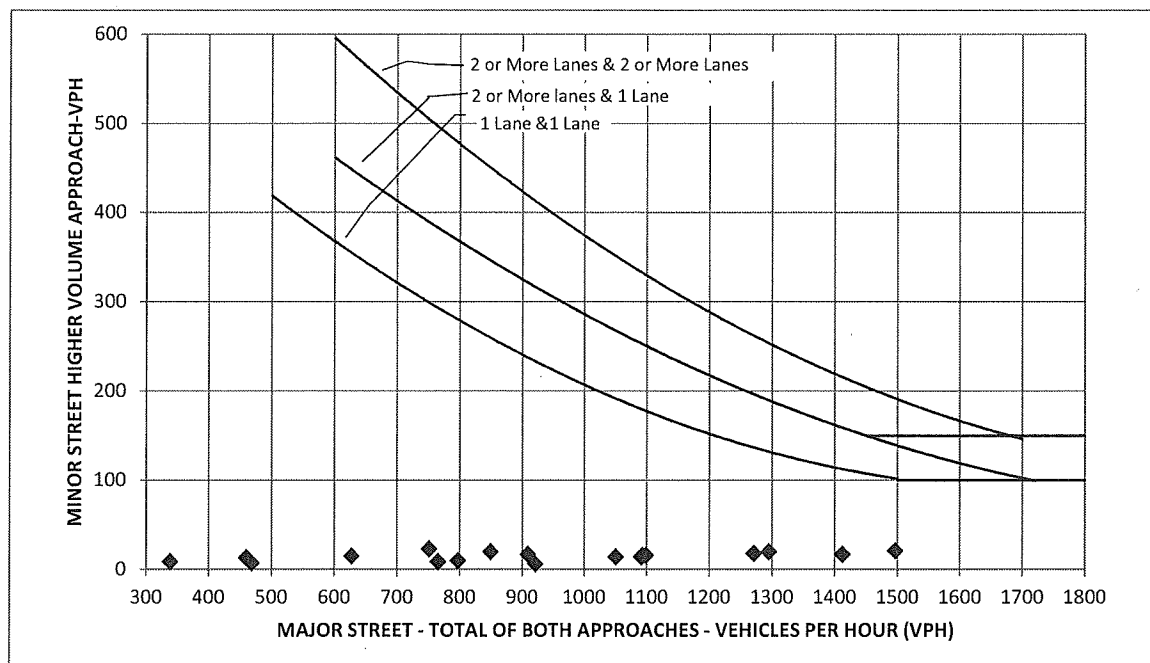
NO

Michigan Manual of Uniform Traffic Control Devices Worksheet for Signal Warrants (Section 4C) WARRANT 3 A: Peak-Hour Vehicular Volume			
Spot Number:	0		
Intersection:	MLK @ Valencia		
Date	8/14/2017	by	NBN
NOT MET	0	: Total Stop Time Delay (hrs)	
	1	: Minor Street Approach Lanes	
	4	: Total Approaches	
NOT MET	13	: Minor Approach Volume	
NOT MET	474	: Total Entering Volume	
	05:00 - 06:00 : Peak Hour		
Is Warrant 3 A Met?			NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 3 B(100%): Peak-Hour Vehicular Volume

Spot Number:	0
Intersection:	MLK @ Valencia
Date	8/14/2017 by NBN

2	: No. of Lanes on Major St.
1	: No. of Lanes on Minor St.
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met	0
Is Warrant 3 B (100%) Met?	NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 4 (100%): Four-Hour Pedestrian Volume

Spot Number:	0
Intersection:	MLK @ Valencia
Date:	8/14/2017 by NBN

1100	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met

0

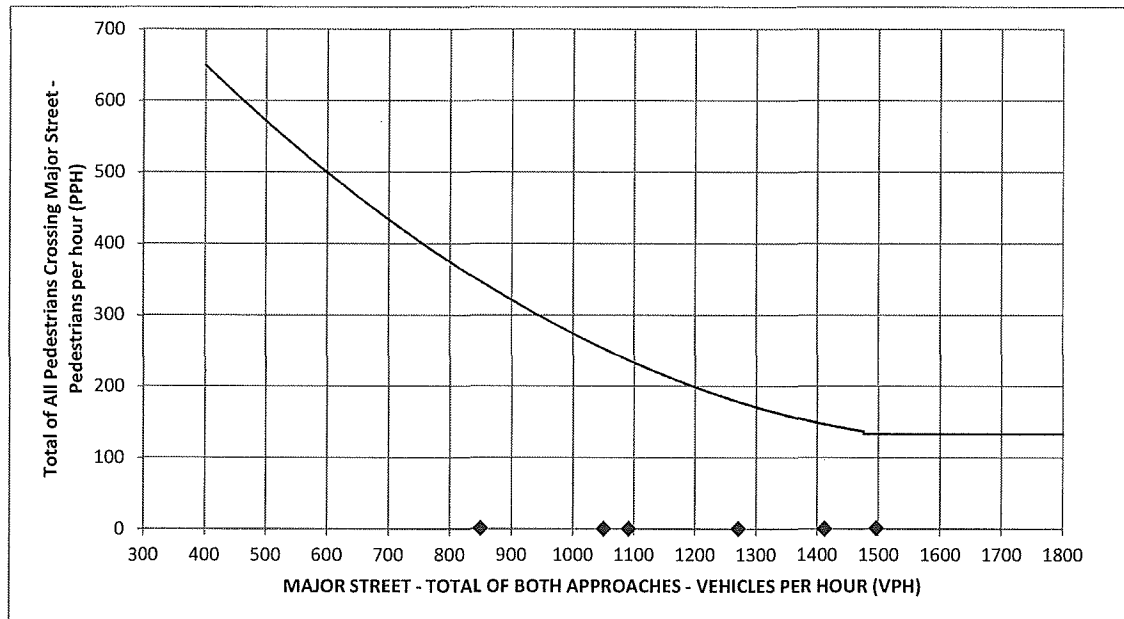
Is Warrant 4 B (100%): Four Hour Met?

NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 4 (100%): Peak-Hour Pedestrian Volume

Spot Number:	0
Intersection:	MLK @ Valencia
Date	8/14/2017 by NBN

1100	: Distance to Nearest Signal or Stop Control on Major Road
0%	: Percentage Reduction in Pedestrian Volumes
35	: Speed limit or 85th Percentile? (MPH)
NO	: Is the intersection within an Isolated community?
0	: What is the of the population isolated community?



How Many Hours Are Met	0
Is Warrant 4 B (100%): Peak Hour Met?	NO

Michigan Manual of Uniform Traffic Control Devices
Worksheet for Signal Warrants (Section 4C)
WARRANT 7: Crash Experience

Spot Number:	0		
Intersection:	MLK @ Valencia		
Date	8/14/2017	by	NBN

1	: No. of Lanes on Major St?
2	: No. of Lanes on Minor St?
NO	: Has adequate trial of remedial measure with adequate enforcement been tried?
NO	: Are there 5 or more Crashes Susceptible to Correction by Signalization in a 12 Month Period?

	Major Volume (Both Apr.)	Minor Volume (One Apr.)	Condition A Major Volume	Condition A Minor Volume	Warrant Condition A Met?	Condition B Major Volume	Condition B Minor Volume	Warrant Condition B Met?
Time	N-S	E-W						
00:01 - 01:00	338	9	480	120	NO	720	60	NO
01:00 - 02:00	188	3	480	120	NO	720	60	NO
02:00 - 03:00	145	1	480	120	NO	720	60	NO
03:00 - 04:00	137	3	480	120	NO	720	60	NO
04:00 - 05:00	169	4	480	120	NO	720	60	NO
05:00 - 06:00	460	13	480	120	NO	720	60	NO
06:00 - 07:00	921	6	480	120	NO	720	60	NO
07:00 - 08:00	1271	18	480	120	NO	720	60	NO
08:00 - 09:00	1091	14	480	120	NO	720	60	NO
09:00 - 10:00	797	10	480	120	NO	720	60	NO
10:00 - 11:00	765	9	480	120	NO	720	60	NO
11:00 - 12:00	849	20	480	120	NO	720	60	NO
12:00 - 13:00	1050	14	480	120	NO	720	60	NO
13:00 - 14:00	1093	16	480	120	NO	720	60	NO
14:00 - 15:00	1412	17	480	120	NO	720	60	NO
15:00 - 16:00	1496	21	480	120	NO	720	60	NO
16:00 - 17:00	1843	10	480	120	NO	720	60	NO
17:00 - 18:00	1977	13	480	120	NO	720	60	NO
18:00 - 19:00	1295	20	480	120	NO	720	60	NO
19:00 - 20:00	1098	16	480	120	NO	720	60	NO
20:00 - 21:00	909	17	480	120	NO	720	60	NO
21:00 - 22:00	751	23	480	120	NO	720	60	NO
22:00 - 23:00	627	15	480	120	NO	720	60	NO
23:00 - 00:00	468	7	480	120	NO	720	60	NO

Is there a reduction in the warrant thresholds to 56% = NO

Number of Hours that met the warrant 7A = 0

Number of Hours that met the warrant 7B = 0

A. Is the Minimum Vehicular Volume Warrant Met Based on Crash Patterns? (Condition A)

NO

B. Is the Interruption of Continuous Traffic Met Based on Crash Patterns? (Condition B)

NO



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

RECEIVED
2018 MAY 18 PM 3:03
PONTIAC CITY CLERK

Memorandum

To: John Balint, P.E.
From: Lia Michaels, P.E., PTOE
Date: March 13, 2018
Subject: Signal Warrant Analysis
N Saginaw St. at Howard St.

Lia Michaels

HRC Job No. 20180187

At your request, Hubbell, Roth & Clark (HRC) conducted a signal warrant analyses at N Saginaw St and Howard St. Turning movement counts for 24-hours were started on Wednesday, 3/7/18, and concluded on Thursday, 3/8/18, at this intersection. An investigation of the need for traffic signal controls included, where applicable, an analysis of the factors contained in the following warrants:

- ≡ Warrant 1: Eight-Hour Vehicular Volume
- ≡ Warrant 2: Four-Hour Vehicular Volume
- ≡ Warrant 3: Peak Hour
- ≡ Warrant 4: Pedestrian Volume
- ≡ Warrant 5: School Crossing
- ≡ Warrant 6: Coordinated Signal System
- ≡ Warrant 7: Crash Experience
- ≡ Warrant 8: Roadway Network
- ≡ Warrant 9: Intersection Near a Grade Crossing

A summary of the traffic warrant analysis for the intersection is shown in the table below. None of the nine signal warrants were met. Please note that Warrant 9 related to rail crossings is not applicable. The complete analysis can be found in Attachment A.

Warrant		Met?
Warrant 1: Eight-Hour Vehicular Volume	Condition A	No
	Condition B	No
	Combination of A & B	N/A
Warrant 2: Four-Hour Vehicular Volume		No
Warrant 3: Peak Hour		No
Warrant 4: Pedestrian Volume		No
Warrant 5: School Crossing		No
Warrant 6: Coordinated Signal System		No
Warrant 7: Crash Experience		No
Warrant 8: Roadway Network		No
Warrant 9: Intersection Near a Grade Crossing		N/A

Based on the analysis, a signal at this intersection is not warranted.



CITY OF PONTIAC

OFFICIAL MEMORANDUM

Executive Branch

TO: Pontiac City Council

FROM: Jane Bais-DiSessa, Deputy Mayor, at the request of
John V. Balint, City Engineer

DATE: May 3, 2018

RE: CDBG Sidewalk Program – Merlo Construction

RECEIVED
2018 MAY -4 PM 1:19
PONTIAC CITY CLERK

The City of Pontiac received and publicly opened bids for the referenced improvement project on Monday, April 23, 2018. Proposed work is located at various locations in the City with the goal & objective of removing & replacing deteriorated/hazardous sidewalk.

A total of seven (7) bids were received for the project in the amounts as follows:

1. Merlo Construction	\$766,569.75
2. Koala-T Construction	\$839,714.00
3. Great Lakes Construction	\$916,952.25
4. Lacaria Construction	\$1,149,683.00
5. Audia Construction	\$1,182,612.50
6. JB Construction	\$1,347,991.25
7. Gibraltar Constuction	\$1,625,430.25

The Engineering Division has reviewed and based on the attached is recommending the award to the low bidder, Merlo Construction.

Construction is scheduled to start in late May with anticipated completion by September 2018.

Funding for the project is identified in the FY '18 CDBG budget for the subject work.

Based upon the above and attached information, it is my recommendation of the Department of Public Works that the CDBG Sidewalk Improvement Program be awarded to Merlo Construction, Inc, in the amount of \$766,569.75.

WHEREAS, The City of Pontiac has advertised and received responses to a request for proposal for the CDBG Sidewalk Program on April 23, 2018 and publically opened bids, and;

WHEREAS, a bid tabulation was prepared and reviewed, and;

WHEREAS,

the City identified the low bidder as Merlo Construction.

NOW, THEREFORE,

BE IT RESOLVED,

The Pontiac City Council authorized the Mayor to enter into a contract with Merlo Construction for \$766,569.75 for the CDBG Sidewalk Program.

JVB

Attachments



CITY OF PONTIAC

OFFICIAL MEMORANDUM

Executive Branch

TO: Pontiac City Council

FROM: Jane Bais-DiSessa, Deputy Mayor, at the request of
John V. Balint, City Engineer

DATE: April 20, 2018

RE: City Hall-Sheriff Substation Security System Upgrade

RECEIVED
2018 MAY -4 PM 1:19
PONTIAC CITY CLERK

The Department of Public Works has prepared and advertised a request for proposals for the City Hall and Sheriff Substation Security System Upgrade. Proposals were accepted on February 26, 2018 at 2:00 PM in the office of the City Clerk and publically opened at that time. Funding of this project is allocated in the FY 2017-18 Capital Improvement Fund.

The respondents to the RFP were:

- D/A Central Intelligent Security Solutions: Base Bid= \$70,315.00
- JMC Electrical Contractors, LLC: Base Bid= \$85,511.00

Included in the bid package are options for full service annual contracts for years 2 and 3 of the system. These options add a potential \$9,000 to the contract for future years and an additional Mobile Remote Camera system which can be used in frequent dumping areas. While these are options in the bid, we ask to have these included in the contract dollar amount. Therefore, we are asking City Council to approve a total for this project of \$90,000 for the complete system.

The bids were tabulated and checked. Based on the review, the individual tabulations are below. The low bidder is D/A Central Intelligent Security Solutions

The funding for the security system project can be found in the City Capital Improvement budget in FY 2017-18.

It is the recommendation of the Department of Public Works that the City accept the bid by D/A Central Intelligent Security Solutions and authorize the Mayor to sign a contract for the installation of the security system at City Hall and the Sheriff Substation. The total bid amount is within budget constraints.

WHEREAS,

The City of Pontiac has advertised and received responses to a request for proposal for the Security System Upgrade Project on February 26, 2018 and publically opened bids, and;

WHEREAS,

a bid tabulation was prepared and reviewed, and;

WHEREAS,

the City identified the low bidder as D/A Central Intelligent Security Solutions.

NOW, THEREFORE,
BE IT RESOLVED,

The Pontiac City Council authorized the Mayor to enter into a contract with D/A Central Intelligent Security Solutions for \$90,000 for the Security System Upgrade Project.

JVB

Attachments

Preliminary Bid Tabulation

LOCATION		JMC Electrical Contractors LLC		D/A Central, Inc.	
Pontiac City Hall	Pontiac City Hall Video Upgrade	\$	14,165.00	\$	8,850.00
Pontiac City Hall	Pontiac City Hall Access Control	\$	24,720.00	\$	20,695.00
Pontiac City Hall	Pontiac City Hall Intrusion Detection System	\$	10,677.00	\$	7,595.00
Oakland County Sheriff	Oakland County Sheriff Video Upgrade	\$	35,049.00	\$	31,795.00
Training					
	(Quantity 3) - Four (4) Hour Training Sessions on Proposed Systems				
	12 Hours Total	\$	900.00	\$	1,380.00
LUMP SUM		\$	85,511.00	\$	70,315.00
Warranty Included					
Year 1	(YES / NO)	YES		YES	
Optional Full Coverage Service Contract				Full Service	Full Replacement
Year 2	annually	\$	3,800.00	\$	5,555.00
Year 3	annually	\$	4,500.00	\$	5,555.00
Alternate-					
Mobile Remote Camera Kit		\$	4,926.00	\$	5,000.00

Identicard Access Control
Honeywell Intrusion System

Lenel OnGuard Access Control
Bosch Intrusion System

Name/Work Activity of RFP: Security System Upgrade Project

Witness: Michelle McKenzie, Purchasing Agent

Witness: _____

Opened by City Clerk: Shella Grandison, City Clerk

City of Pontiac
47450 Woodward Ave.
Pontiac, MI 48342

Date/Time: 2/26/2018 @ 2:00 PM

REFERRAL/RECOMMENDATION FORM

DATE: April 19, 2018

TO: Nevrus Nazarko, Finance Director

TO: Jane Bais-DiSessa, Deputy Mayor

FROM: Michelle L. McKenzie, Purchasing Agent

THE ATTACHED DOCUMENTS ARE BEING REFERRED FOR THE FOLLOWING REASONS:

___ City Council X Bid Approval ___ Budget Approval ___ Cancelled ___ Other

Bid Analysis and Recommendation for _____

The following bid is attached:

Security System Upgrades

This copy does not include the equipment specifications or Oakland County forms.

You Recommendations of a bidder are to be located in the space provided in the "Remarks" section on the next page of this form. Do not submit your recommendation on any other.

RFP: Security System Upgrades

REMARKS: After a competitive process and a public bid opening, it is recommended that D A Central be awarded the Security System Upgrades bid.

Your recommendation is to be based on the bid specification and content of bid. If the lowest bidder or bidders do not meet the specifications then list the major deviations for each.

Rejections must be based on actual exceptions to specifications, or on other details included in the bid documents.

Legal questions or concerns should be included in the analysis. If necessary, the Purchasing Division may request a legal opinion.

Recommendations for bids over \$10,000.00 must be approved by the Finance Director, the Purchasing Agent or an approved person as noted on the "City of Pontiac Authorized Signature Record."

Vendor has met the requirements of the Request For Proposal Bid Documents.
The above named firm has also provided references of the companies where they have performed similar work.
They have the experience and equipment necessary to perform the duties of the RFP.
I have included the listing of vendors notified on MITN.
I have included a bid tabulation showing all the bidders and their prices.

Signature of Purchasing Agent:

Michelle A McKenzie

Date: 4-19-18

Approved by:

Signature of Finance Director:

[Signature]

Date: 4-20-18

Signature of Deputy Mayor:

[Signature]

Date: 9-28-18

☒ LARA
 ☒ CORPS
 ☒ SAM
 ☒ Income Tax
 ☒ Oakland County Property Info
 ☒ City A/P
☒ SBA
☒ MITN Profile
☒ Website
☒ Bid Tab
☒ Vendor List
☒ RFP

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Bureau of Professional Licensing / Corporations, Securities & Commercial Licensing Bureau

VERIFY A LICENSE/REGISTRATION**Licensee Information**

Name: D/A CENTRAL INC
OO/Owner: PAUL D SHELTON
Address: Oak Park, MI 48237
County: Oakland

License Information

License Type: Security Alarm Agency
License Number: 3601201984
Specialties:
Status: Active
Limitations:
Issue Date: 04/25/1991
Expiration Date: 04/30/2018

Employed/Managed By

Employer/Manager:
License Number:
Address:
County:

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Additional information pertaining to the occupations regulated by the [Bureau of Professional Licensing](#) can be found on the [Licensing Division](#) site.

DISCLAIMER

The Issue Date is the date the license/registration was first issued. Please note this information is not always available in the database. The Expiration Date given above is the date the license/registration expired or will expire. The license/registration may not have been active from the Issue Date to the Expiration Date. There may have been periods of non-licensure or non-registration. Please view the status history for more information.

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LARA

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Online Filing System
Department of Licensing and Regulatory Affairs

ID Number: 800290754

[Request Certificate](#)[New Search](#)

Summary for: D/A CENTRAL, INC.

The name of the DOMESTIC PROFIT CORPORATION: D/A CENTRAL, INC.

The name was changed from: D/A NEWCO, INC. on 10-01-1984

Entity type: DOMESTIC PROFIT CORPORATION

Identification Number: 800290754 Old ID Number: 283556

Date of Incorporation in Michigan: 08/21/1984

Term: Perpetual

Most Recent Annual Report: 2017

Most Recent Annual Report with Officers & Directors: 2013

The name and address of the Resident Agent:

Resident Agent Name: P. DAVID SHELTON

Street Address: 13155 CLOVERDALE

Apt/Suite/Other:

City: OAK PARK

State: MI

Zip Code: 48237

Registered Office Mailing address:

P.O. Box or Street Address:

Apt/Suite/Other:

City:

State:

Zip Code:

Act Formed Under: 284-1972 Business Corporation Act

Total Authorized Shares: 60,000

Written Consent

[View Assumed Names for this Business Entity](#)

View filings for this business entity:

ALL FILINGS

ANNUAL REPORT/ANNUAL STATEMENTS

ARTICLES OF INCORPORATION

RESTATED ARTICLES OF INCORPORATION

RESTATED ARTICLES OF INCORPORATION

[View Filings](#)

Comments or notes associated with this business entity:

[LARA FOIA Process](#) [Transparency](#) [Office of Regulatory Reinvention](#) [State Web Sites](#)[Michigan.gov Home](#) [ADA](#) [Michigan News](#) [Policies](#)

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CORPS

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	Forgot Username?	Forgot Password?	Create an Account

Entity Dashboard

- Entity Overview
- Entity Registration
 - Core Data
 - Assertions
 - Reps & Certs
 - POCs
- Exclusions
 - Active Exclusions
 - Inactive Exclusions
 - Excluded Family Members

D/A Central, Inc.

13155 Cloverdale Ave
Oak Park, MI, 48237-3205
UNITED STATES

DUNS: 095872982 CAGE Code: 3P923
Status: Active

Expiration Date: 10/04/2018
Purpose of Registration: All Awards

Entity Overview

Entity Registration Summary

Name: D/A Central, Inc.
Business Type: Business or Organization
Last Updated By: Eric Stanton
Registration Status: Active
Activation Date: 10/04/2017
Expiration Date: 10/04/2018

Exclusion Summary

Active Exclusion Records? No



IBM v1.P.8.20180125-1243

WWW1

Search Records	FAPIS.gov
Data Access	GSA.gov/IAE
Check Status	GSA.gov
About	USA.gov
Help	

This is a U.S. General Services Administration Federal Government computer system that is "FOR OFFICIAL USE ONLY." This system is subject to monitoring. Individuals found performing unauthorized activities are subject to disciplinary action including criminal prosecution.

SAM

Michelle McKenzie

From: Larry A. Kosofsky
Sent: Tuesday, February 27, 2018 2:39 PM.
To: Michelle McKenzie
Subject: RE: Please check for compliance

Hello Michelle,

I have no information for this business in my system.

Larry

From: Michelle McKenzie
Sent: Tuesday, February 27, 2018 2:17 PM
To: Larry A. Kosofsky <lkosofsky@pontiac.mi.us>
Subject: Please check for compliance

Larry,

This company is in our vendor listing as inactive and I cannot pull up any activity.
They are a vendor for our Security System Upgrade Bid.

D/A Central, Inc.
13155 Cloverdale
Oak Park, MI 48237

Tax ID# 38-2556646

Thank you,

Michelle L. McKenzie
Purchasing Agent/Fiscal Analyst
City of Pontiac
MMcKenzie@pontiac.mi.us
Direct Dial (248) 758-3120
Fax (248) 758-3197

income
tax

13155 CLOVERDALE AVE OAK PARK MI 48237-3205



25-32-376-025

Commercial and Industrial Property Profile

Note: Please be advised the data included in Property Gateway originates from multiple local municipalities. Data, in regard to properties, may be classified and updated differently by municipalities. If you have any questions, please contact the local community where the data originated.

Owner Information

Owner(s) : VILLAGE LEASING COMPANY INC
Mailing Address : 20835 W 13 MILE RD BEVERLY HILLS MI 48025-3838

Location Information

Site Address : 13155 CLOVERDALE AVE OAK PARK MI 48237-3205
PIN : 25-32-376-025 Neighborhood Code : 03060
Municipality : City of Oak Park
School District : 190 OAK PARK SCHOOLS
Use : 201 BUS IMP (Commercial Business Imp.)
Water Indicator : N Sewer Indicator : N
Well Indicator : N Septic Indicator : N

Property Description

T1N, R11E, SEC 32 PART OF NE 1/4 OF SW 1/4 BEG AT PT DIST N 00-34-40 E 1350.05 FT & N 88-02-12 W 1240.68 FT FROM S 1/4 COR, TH N 88-02-12 W 104.94 FT, TH ALG LINE FERN AVE N 00-41-20 E 370 FT, TH ALG S LINE CLOVERDALE AVE S 88-02-10 E 104 FT, TH S 00-18-40 W 87.22 FT, TH S 00-36-52 W 282.80 FT, TO BEG 0.89 A 11-22-88 FROM 001 & 021

Split/Combination Information

Added Status : Added Parcel
Added Date : 12/07/1988 Added To : FROM 021

Tax Information

Taxable Value : \$98,490 State Equalized Value : \$107,200
Current Assessed Value : \$107,200 Capped Value : \$98,490
Effective Date For Taxes : 12/01/2017 Principal Residence : 0.0000%
Exemption

Taxes		Taxes	
Summer	:	Summer	:
Winter	:	Winter	:
Village	:	Village	:

Lot Information

Description : Acres : 0

OC prop info

47

13155 CLOVERDALE AVE OAK PARK MI 48237-3205



25-32-376-025

Commercial and Industrial Property Profile

Note: Please be advised the data included in Property Gateway originates from multiple local municipalities. Data, in regard to properties, may be classified and updated differently by municipalities. If you have any questions, please contact the local community where the data originated.

Building/Section 1

Building	: 1	Used As	: Office Building
Year Built	: 1960	Effective Year	: 1981
Class	: C	Quality	: Low Cost
No of Stories	: 1	Height Per Story (feet)	: 12
Avg Square Feet	: 9,198	Elevators	: N
Sprinklers	: N	Identical Units	: 1
Total Building Square Footage	: 9,198		

No lump sum improvements Data Available for Building/Section 1

OC prop
info 2/7

Personal Property

13155 CLOVERDALE OAK PARK, MI 48237 (Property Address)

Parcel Number: 52-99-10-012-734 **Personal Property *

Property Owner: D/A CENTRAL INC ***Summary Information**

> Assessed Value: \$0 | Taxable Value: \$0

> Property Tax information found

No Images Found

Owner and Taxpayer Information**Owner**D/A CENTRAL INC
13155 CLOVERDALE
OAK PARK, MI 48237**Taxpayer**

SEE OWNER INFORMATION

General Information for Tax Year 2017

Property Class	COMMERCIAL PERSONAL	Unit	52 CITY OF OAK PARK
School District	OAK PARK	Assessed Value	\$0
STYLE	Not Available	Taxable Value	\$0
LOT SEARCH #5	Not Available	State Equalized Value	\$0
SUBDIVISION	Not Available	Date of Last Name Change	Not Available
USER ALPHA 3	Not Available	Notes	Not Available
Historical District	Not Available	Census Block Group	Not Available
LIBER/PAGE	Not Available	Exemption	No Data to Display

Principal Residence Exemption Information

Homestead Date *No Data to Display*

MBT Commercial	June 1st	Final
2017	100.0000 %	100.0000 %

Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2016	\$0	\$0	\$0
2015	\$0	\$0	\$0
2014	\$0	\$0	\$0

Land Information

Zoning Code		Total Acres	0.000
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	Not Available	Renaissance Zone Expiration Date	Not Available
ECF Neighborhood	PERSONAL PROPERTY	Mortgage Code	Not Available
Lot Dimensions/Comments	No Data to Display	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

PERSONAL PROPERTY

Land Division Act InformationDate of Last Split/Combine *No Data to Display* Number of Splits Left 0

Date Form Filed	10/01/2010	Unallocated Div.s of Parent	0
Date Created	No Data to Display	Unallocated Div.s Transferred	0
Acreage of Parent	0.00	Rights Were Transferred	Not Available
Split Number	0	Courtesy Split	Not Available
Parent Parcel	No Data to Display		

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Liber/Page	Comments
-----------	------------	------------	---------	---------	------------	----------

No sales history found.

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Accepted
5/7

Certificate Details: CB180115

Property Address: 13155 CLOVERDALE, OAK PARK, MI 48237 | Parcel: 52-25-32-376-025

Property Owner: VILLAGE LEASING COMPANY, INC

Summary Information

> 1 Inspection(s) Found

Certificate Information

Number	CB180115	Status	No Data to Display
Type	Business License		
Description	No Data to Display		
Bldg/Ref #	No Data to Display	Buildings	0
Complex	No Data to Display	Billing Class	No Data to Display
Since	11/20/2017	Expires	12/31/2018
Issued	01/04/2018		
Inspector	No Data to Display	Group	No Data to Display
Stipulations	No Data to Display		
Comments	Not Available		

Amount Due

Certificate - Business License Total \$0.00

Inspection Information

Inspection Type	Inspector	Status	Scheduled Date	Completed Date	Result	
Council Approval	Council Approval	Completed	1/3/2018	1/3/2018	Complied	View

Fees & Payments

Date	Action	Qty	Description	Billed	Paid
------	--------	-----	-------------	--------	------

Handwritten: 1/3/2018

Address VILLAGE LEASING COMPANY, INC
20835 W THIRTEEN MILE ROAD
BEVERLY HILLS, MI 48025

Mobile No Data to Display Other Phone No Data to Display

Occupant Information

Address D/A CENTRAL, INC.
13155 CLOVERDALE
OAK PARK, MI 48237

Mobile No Data to Display Other Phone No Data to Display

Responsible Party Information

Address VILLAGE LEASING COMPANY, INC
20835 W THIRTEEN MILE ROAD
BEVERLY HILLS, MI 48025

Mobile No Data to Display Other Phone No Data to Display

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User: MMCKENZIE

DB: Pontiac

VENDOR CODE	VENDOR NAME	INACTIVE	1099
10004106	Custom Framing of Bloomfield	N	Y
00001304	Custom Ordered Police Supplies Supp	Y	N
10002391	Custom Printing of Michigan, inc.	Y	N
10001947	Custom Trophies LTD	Y	N
10002648	Customer Expressions Corporation	Y	N
10003618	Cutter	Y	N
10001077	Cutters Edge	Y	N
10000833	Cuttner	Y	N
00010166	CVRS LLC., D/B/A Motor City Harley	Y	N
10004061	CW & COMPANY, LLC	N	Y
00000224	Cyberdyne Technologies	Y	N
00000225	Cyberdyne Technology Inc.	Y	N
00012521	Cynergy Wireless Products	Y	N
10001863	CYNTHIA THOMAS WALKER	N	Y
00010641	Cynthia Tucker Ministries	Y	N
00011112	Cyril C. Hall, P.C.	Y	N
10002183	D & B Computer Supplies LLC	Y	N
00000226	D & C Distributors Inc.	Y	N
10002574	D & G Equipment, Inc.	Y	N
00001305	D & J Straps Inc.	Y	N
10002814	D & M Contracting, Inc.	Y	N
10000734	D & R Electronics Co. Ltd	Y	N
10000876	D & S Engine Specialists, Inc.	Y	N
00001306	D Ann Parker	Y	N
10002409	D K W Law Group	Y	N
10002443	D&G Food Service & Equipment	Y	N
10003758	D'ANGELO BROTHERS INC.	N	N
00010103	D'Autremont	Y	N
00013037	D. Ann Parker	Y	Y
00000227	D. Augustus Straker Bar	Y	N
10003989	D. R. TRAILER SALES INC.	N	N
10000866	D.K. & Associates	Y	N
00001308	D.M. Data Corporation	Y	N
00001309	D.O.C. Eyeworld	Y	N
00001310	D/A Central, Inc.	Y	N
10003608	Daco Construction	Y	N
00010635	Dafang Li	Y	N
10003110	Daktronics, Inc	Y	N
00001311	Dalec Electronics	Y	N
10002664	Dallas	Y	N
00010864	Dallas Midwest	Y	N
10002932	Damage Claims Dept	Y	N
00001312	Damani Phillips	Y	N
10004087	DaMusic Lab	N	Y
10001097	Dan Dan The Choo Choo Man, Inc.	Y	N
00001313	Dan Mosher	Y	N
10000097	Dan'S Excavating, Inc.	Y	N
10001239	DANCOR. LTD	Y	N
10003328	Daniel	Y	N
10000371	Daniel	Y	N
00013209	Daniel	Y	N
10000779	Daniel & Grossman	Y	Y
00001314	Daniel Carthane	Y	N

← There has been no activity that can be printed.

A/P

[Accessibility Options >](#)

SBA Profile

[Privacy Statement](#)[\(Back to Profile List, or use Back button\)](#)**Identification, Location & Contacts**

This profile was last updated: 10/04/2017
Status: Active

User ID: P0441345
Name of Firm: D/A Central, Inc.
Trade Name ("Doing Business As ..."):
DUNS Number: 095872982
Parent DUNS Number: 095872982
Address, line 1: 13155 Cloverdale Ave
Address, line 2:
City: Oak Park
State: MI
Zip: 48237-3205
Phone Number: 248-399-0600 x115
Fax Number: 248-399-3636
E-mail Address: Eric.Stanton@dacentral.com
WWW Page: <http://www.dacentral.com>
E-Commerce Website:
Contact Person: ERIC STANTON
County Code (3 digit): 125
Congressional District: 14
Metropolitan Statistical Area: 2160
CAGE Code: 3P9Z3
Year Established: 1984
Accepts Government Credit Card?: ☒ Yes ☐ No
GSA Advantage Contract(s):

(Note: Size Information is now under "NAICS Codes with Size Determinations by NAICS", below.)

Organization, Ownership & Certifications

Legal Structure:
Ownership and Self-Certifications: Veteran

Current Principals

1. P. David Shelton, President
2. Jonathan D. Shelton, Treasurer

"Business Development Servicing Office" (for certifications)

MICHIGAN DISTRICT OFFICE (SBA office code 0515)

8(a) Certification:

SBA 8(a) Case Number:
SBA 8(a) Entrance Date:
SBA 8(a) Exit Date:

Small Disadvantaged Business Certification:

SDB Entrance Date:
SDB Exit Date:

HUBZone Certification:

HUBZone Certified?: ☐ Yes ☒ No
HUBZone Certification Date:

SBA 4/2

8(a) Joint Venture Certification:

8(a) JV Entrance Date:

8(a) JV Exit Date:

Non-Federal-Government Certifications:

CHS II

BSME

Products & Services**Capabilities Narrative:**

Security Systems Integration Including: CCTV, Access Control, Alarm Systems, Perimeter Protection, Digital Video Surveillance

Special Equipment/Materials:

(none given)

Business Type Percentages:

Construction (75 %)

Manufacturing (2 %)

Service (23 %)

Bonding Levels

Construction Bonding Level (per contract) \$1,000,000

Construction Bonding Level (aggregate) \$1,000,000

Service Bonding Level (per contract) \$0

Service Bonding Level (aggregate) \$0

NAICS Codes with Size Determinations by NAICS:

#	Primary?	Code	NAICS Code's Description	"Buy Green"? (1)	Small? (2)
1	Yes	561621	Security Systems Services (except Locksmiths)		Yes
2		238210	Electrical Contractors and Other Wiring Installation Contractors		Yes
3		334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing		Yes
4		541330	Engineering Services General \$15.00m Small Business Size Standard: [Yes] Special \$38.50m Military and Aerospace Equipment and Military Weapons: [Yes] Special \$38.50m Contracts and Subcontracts for Engineering Services Awarded Under the National Energy Policy Act of 1992: [Yes] Special \$38.50m Marine Engineering and Naval Architecture: [Yes] (4)		Yes
5		541512	Computer Systems Design Services		Yes

(1) By entering Yes for "Buy Green", the firm asserts that it obeys EPA guidelines for environmental friendliness for this NAICS code. Note, EPA guidelines do not exist for every NAICS code.
(2) If Yes, the firm's revenues/number of employees do not exceed the NAICS code's small business size standard.
(4) As seen above, the size standard can depend on subcategories within a NAICS code.

Keywords:

Security Integrator, CCTV, alarms, surveillance, access control, burglar alarm, Intercom, NVR, DVR, IP Cameras

Miscellaneous:

Quality Assurance Standards:

(none given)

Electronic Data Interchange capable?:

☐ Yes ☐ No**Export Profile (Trade Mission Online)**

Exporter?:

☐ Yes ☒ No ☐ Wants To Be

Export Business Activities:

(none given)

Exporting to:

(none given)

Desired Export Business Relationships:

(none given)

Description of Export Objective(s):

(none given)

Performance History (References)

(none given)

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Vendor List

Created By Michelle McKenzie
Created On 02/27/2018 03:18 PM EST
Keyword D/A Central, Inc.
Vendors Status Active Vendors
Purchasing Group MITN Purchasing Group

Organization Name	Address	Main Contact	Email	Phone
D/A Central, Inc.	13155 Cloverdale; Oak Park, Mich., 48237	Eric Stanton	eric.stanton@dacentral.com	248-399-0600 ext. 115

MITN
Profile



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Access Control Management

Industry Applications

Surveillance Equipment and Service

Command Control Center

Access Control Management

Commercial Alarm Monitoring



Access control enables an organization to track movement patterns within a system. By utilizing an access control system with card readers, turnstiles, or an electronic gate, your company is able to allow or deny access to different individuals at different times on different days. Imagine having the ability to lock all doors with the press of a button, or track an employee's movement throughout his or her day. Our access control systems provide both security and operational benefits by enabling you to put your building on lockdown with the press of a button or track an employee's attendance records, all in one system.

Specialties

- ID Cards, Swipe Cards, and Biometrics (such as utilizing fingerprints for building access)
- Card Readers
- Visitor Management Software
- Time and Attendance for employees

Our Manufacturers



website



Matching Supplier List

Created by:

Michelle McKenzie

Created on:

11/28/2017 04:13 PM EST

Solicitation:

Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Abel Electronics Inc. Org. Number: 556435	27201 Harper St Clair Shores, Michigan, 48081 United States	Mark Monarch	sales@abelelectronics.com	586-777-8232
		Ryan Lake	sales@abelelectronics.com	586-777-8232
Absolute Security & Investigations Org. Number: 556903	314 West Walton Blvd. Pontiac, Michigan, 48340 United States	William Rogers	bill@altronint.com	248-332-7777
		William Rogers	bill@altronint.com	248-332-7777
Accurate Networks, LLC Org. Number: 566075	140 Manor Dr. Middleville, Michigan, 49333 United States	Jeff Brown	jbrown@accuratenetworks.com	616-552-3536 ext. 000
		Jeff Brown	jbrown@accuratenetworks.com	616-552-3536 ext. 000
Advanced Building Group, LLC Org. Number: 561746	28 West Adams, Suite 200 Detroit, Michigan, 48226 United States	Scott Richardson	srichardson@advancedbg.com	313-974-6153
		Scott Richardson	srichardson@precision-cg.com	313-974-6153
Advanced Lighting & Sound Org. Number: 556137	1026 Mapelawn Dr. Troy, Michigan, 48064 United States	Bob Sullivan	bidals@go-als.com	248-817-2092 ext. 210
		Bob Sullivan	bidals@go-als.com	248-817-2092
Advanced Wireless Telecom Org. Number: 556844	49716 Martin Dr. Wixom, Michigan, 48393 United States	Todd Jones	todd@awt911.com	248-295-4600
		Todd Jones	todd@awt911.com	248-295-4600
Aegis Concepts, Inc. Org. Number: 567980	22791 Patmore Dr. Clinton TWP, Michigan, 48036 United States	Brian Delaney	bdelaney@aegisconcepts.com	586-226-2080
		Brian Delaney	bdelaney@aegisconcepts.com	586-226-2080
Alcohol Monitoring Systems Inc. Org. Number: 561606	1241 Mineral Ave. Suite 200 Littleton, Colorado, 80120 United States	Gail Thalheimer	rtp@scramsystems.com	617-381-2467
		Lou Sugo	rtp@scramsystems.com	303-785-7821
All Inclusive Security & Investigation Org. Number: 559170	19472 Livernois Ave (upper) Detroit, Michigan, 48221 United States	Afford A Coleman	info@allinclusivesecurity.com	877-803-6553
		Samo'n C Coleman-Lever	management@allinclusivesecurity.com	877-803-6553
Allegion USA Org. Number: 567194	44704 Helm Street Plymouth, Michigan, 49170 United States	Mark Curran	Mark.Curran@allegion.com	734-892-4553
		Doug Skene	douglas.skene@allegion.com	734-612-0753
		Mark Curran	mark.curran@allegion.com	734-892-4553
Alliance Technology Solutions Org. Number: 557785	40 Engelwood Dr., Suite H Orion, Michigan, 48359 United States	Annette D'Alessandro	MITN@ats.biz	248-364-2195 ext. 214
		Dan D'Alessandro	MITN@ats.biz	248-364-2195 ext. 208

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
		Margie Carlson	MITN@ats.biz	248-364-2195
AMERICAN FENCE & SUPPLY CO., INC. Org. Number: 556467	21200 SCHOENHERR RD. WARREN, Michigan, 48089 United States	Len DiGrande	sales@amerifence.com	248-545-7070
		Len DiGrande	sales@amerifence.com	248-545-7070
Amerimin Systems, Inc Org. Number: 558599	2750 Ridgeway Ct Walled Lake, Michigan, 48390 United States	Phillip Chapuseaux	amerimin@live.com	248-344-9200
		Pepi Chapuseaux	amerimin@live.com	586-854-5050
ASERO Worldwide Org. Number: 568326	1299 Pennsylvania Ave. N.W. Suite 300 Washington, District of Columbia, 20004 United States	Shira Averbuch	sgorenstein@asero.com	202-478-3595
		Carl Truscott	ctruscott@asero.com	202-478-3595
AT&T Org. Number: 557677	23500 Northwestern Hwy Southfield, Michigan, 48075 United States	Cary Schmidt	cs6489@att.com	248-905-8908
		Cary Schmidt	cs6489@att.com	248-905-8908
AT&T Org. Number: 558493	23500 Northwestern Hwy Southfield, Michigan, 48075 United States	Renee O'Brien	ro8286@att.com	248-424-4101
		Renee O'Brien	ro8286@att.com	248-424-4101
Audio Sentry Corporation Org. Number: 567868	16276 E. Thirteen Mile Rd. Roseville, Michigan, 48066 United States	Jim Anderson	janderson@audiosentry.com	586-777-7870 ext. 112
		Jim Anderson	janderson@audiosentry.com	586-777-7870 ext. 112
Audio Visual Innovations, Inc. Org. Number: 556757	6301 Benjamin Road Suite 101 Tampa, Florida, 33634 United States	Cindy Turner	bids@avispl.com	800-282-6733
		Cindy Turner	bids@avispl.com	800-282-6733
Bayview Electric Company, LLC Org. Number: 558733	12230 Dixie Street Detroit, Michigan, 48239 United States	Robert Davies	rdavies@bayelectric.com	313-255-5252
		Robert Davies	unknown@no-reply.com	313-255-5252
		Tiny Runge	tiny@bayelectric.com	313-255-5252
BIS Digital Org. Number: 560259	1350 NE 56th Street Suite 300 Fort Lauderdale, Florida, 33334 United States	Andy Spigner	andy.spigner@bisdigital.com	800-834-7674 ext. 4044
		Andy Spigner	andy.spigner@bisdigital.com	800-834-7674 ext. 4044
		Jade Coldren	jade.coldren@bisdigital.com	800-834-7674
Black Creek Integrated Systems Corp. Org. Number: 566338	PO Box 101747 Irondale, Alabama, 35210 United States	Donna Hogan	salesinfo@blackcreekisc.com	205-949-9923
		Ike Newton	salesinfo@blackcreekisc.com	205-949-9900
Bolden Industries, Inc. Org. Number: 567446	19231 Bretton Drive Detroit, Michigan, 48223 United States	Kenneth Bolden II	boldenindustries@gmail.com	248-387-9489
		Kenneth Bolden II	boldenindustries@gmail.com	248-387-9489
BoundTree Medical Org. Number: 774185	5000 Tuttle Crossing Blvd Dublin, Ohio, 43016 United States	Edward J Draper	edward.draper@boundtree.com	810.533.3424

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Brilliant Systems, LLC Org. Number: 564566	P.O. Box 832 Bloomfield Hills, Michigan, 48324 United States	Lennard Gumaer	gumaer@brilliant.com	248-366-7900 ext. 100
		Lennard Gumaer	gumaer@brilliant.com	248-366-7900 ext. 100
Camouflage Security Org. Number: 566302	615 Griswold Suite 925 Detroit, Michigan, 48226 United States	Khoury Johnson	kj@camouflagesecurity.com	313-721-5389 ext. 313
		Khoury Johnson	kj@camouflagesecurity.com	313-721-5389 ext. 313
CAMTRONICS COMMUNICATION CO. Org. Number: 556451	18655 W. EIGHT MILE RD. DETROIT, Michigan, 48219 United States	Mark Wellman	bids@camsecure.com	313-538-1780 ext. 612
		Mark Wellman	bids@camsecure.com	313-538-1780
Camtronics Communication Company Org. Number: 609989	PO Box 871057 Canton, Michigan, 48187 United States	Mark Wellman	18655mw@camsecure.com	313-5381780
Carousel Industries Org. Number: 559624	10 Griffin Road; North Windsor, Connecticut, 06095 United States	Jill Kummer	jkummer@carouselindustries.com	800-401-0760 ext. 4025
		Jay Moniz	jmoniz@carouselindustries.com	800-401-0760
		Jill Kummer	jkummer@carouselindustries.com	517-827-0966
Center Line Technologies Org. Number: 558431	26560 Liberal Center Line, Michigan, 48015 United States	Dave Harrison	dharrison@centerlinetech.com	586-754-0309 ext. 202
		Dave Harrison	dharrison@centerlinetech.com	586-754-0309 ext. 202
Central Electric Company Org. Number: 562328	PO Box 453 St Johns, Michigan, 48879 United States	Justin Jones	chris@centralelectrictml.com	989-292-3093
		Justin Jones	justin@centralelectrictml.com	989-292-3093
CENTRAL INTERCONNECT, INC. Org. Number: 560517	1425 COIT AVENUE NW GRAND RAPIDS, Michigan, 49505 United States	Constance Lord	clord@centralinterconnect.com	616-732-1029
		Desmond Mathiasz	dmathiaz@centralinterconnect.com	616-732-1038
		Neil Brown	nbrown@centralinterconnect.com	616-732-1025
Cinesys Oceana Org. Number: 566244	5104 Lillian St Houston, Texas, 77007 United States	Michael Keeney	mike.keeney@cinesysinc.com	866-905-2050 ext. 130
		Michael Keeney	mike.keeney@cinesysinc.com	866-905-2050 ext. 130
Cintas Fire Protection Org. Number: 557591	232 E Maple Rd Troy, Michigan, 48063 United States	Sean Kotary	kotarys@cintas.com	248-817-3801
		Ed Hug	huged@cintas.com	248-817-3800
		Marc Demey	demeym@cintas.com	8172483803
		Neil Bower	bowern@cintas.com	734-634-8804
		Tom Clark	clarkT@cintas.com	248-817-3810
Communication Supply Corporation Org. Number: 563683	33162 Sterling Pond Blvd Sterling Heights, Michigan, 48312 United States	Hong Dinh	dinhhong66@yahoo.com	248-596-6017
		James Berger	jberger@gocsc.com	248-888-3886

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Computer Surveillance Inc. Org. Number: 566161	28799 ford rd Garden City, Michigan, 48135 United States	Ali Hamade	ali@compsurv.com	734-261-0162 ext. 734
		Ali Hamade	ali@compsurv.com	734-261-0162 ext. 734
Comtronics Org. Number: 567863	1 Comtronics Place Jackson, Michigan, 49203 United States	John Campau	johncampau@comtronics.com	517-787-2900
		John Wells	johnwells@comtronics.com	517-787-2900 ext. 3060
		Rob Shields	robshields@comtronics.com	517-787-2900 ext. 2250
controllor security systems Org. Number: 564556	21363 gratiot ave eastpointe, Michigan, 48021 United States	hank luks	controller@aol.com	586-772-6100
		hank luks	controller@aol.com	586-772-6100
Convergent Technologies LLC Org. Number: 561856	9405 Hamburg Road Brighton, Michigan, 48116 United States	Scott Schweizer	scott.schweizer@convergent.com	734-781-5768
		Cameron L.C. Wieda	cameron.wieda@convergent.com	4022108471
		Greg Kubacki	greg.kubacki@convergent.com	847-585-8820
County Fire Protection Inc Org. Number: 557256	4620 Crystal Pkwy Kent, Ohio, 44240 United States	John Lubinski	john@county-fire.com	330-633-1014
		John Lubinski	john@county-fire.com	330-633-1014
Cygnus Systems, Inc. Org. Number: 556357	24700 Northwestern Hwy Southfield, Michigan, 48075 United States	Scott Kube	scottk@cygnussystems.com	248-557-4600 ext. 107
		Scott Kube	scottk@cygnus-sys.com	248-557-4600 ext. 107
		Scott Kube	scottk@cygnus-sys.com	248-557-4600 ext. 107
D.M. Burr Facilities Management, Inc. Org. Number: 559298	4252 Holiday Drive Flint, Michigan, 48507 United States	Gloria Carpenter	gloriacarpenter@dm-burr.com	810-233-9114 ext. 215
		John Allen	johnallen@dm-burr.com	810-233-9114 ext. 206
D.PROOF LLC Org. Number: 567522	725 Arusha Dr. Pontiac, Michigan, 48341 United States	Jonathan Davis	Dproofllc@gmail.com	313-903-1262 ext. 313
		Jonathan Davis	Dproofllc@gmail.com	313-903-1262 ext. 313
D/A Central, Inc. Org. Number: 556500	13155 Cloverdale Oak Park, Michigan, 48237 United States	Eric Stanton	eric.stanton@dacentral.com	248-399-0600 ext. 115
		Joe Vanwelsenaers	joe.vanwel@dacentral.com	248-399-0600 ext. 127
		Sales Team	eric.stanton@dacentral.com	248-399-0600
Delta Network Services LLC Org. Number: 558468	510 Highland Ave. PMB 355 Milford, Michigan, 48381 United States	Mark Wheatley	mark.wheatley@delta-ns.com	248-409-1111 ext. 1002
		Mark Wheatley	unknown@no-reply.com	248-889-3530
Detection Systems & Engineering Org. Number: 556579	1460 Temple City Drive Troy, Michigan, 48064 United States	Jeff Brandt	sales@Detection-systems.com	248-649-1310
		Mike Dugan	sales@Detection-systems.com	248-649-1310

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Detroit Power Systems Org. Number: 560743	622 W. Baltimore Detroit, Michigan, 48202 United States	Warren Coklow	jhumes@detroitpowersystems.com	313-871-8000 ext. 301
		Warren Coklow	jhumes@detroitpowersystems.com	313-871-8000
Digital Ally, Inc. Org. Number: 560777	7311 W 130th Street, Suite 170 Overland Park, Kansas, 66213 United States	Heath Bideau	bids@digitalallyinc.com	800-440-4947
		Jessica Bishop	bids@digitalallyinc.com	800-440-4947
Digivoix LLC Org. Number: 562860	46977 Mornington Rd Canton, Michigan, 48188 United States	Asia Sajjad	asajjad@digivoix.com	800-811-9059 ext. 101
		Asia Sajjad	asajjad@digivoix.com	800-811-9059 ext. 101
		S Sajjad	ssajjad@digivoix.com	800-811-9059 ext. 100
Dixson Landscaping INC Org. Number: 566727	PO BOX 511164 Livonia, Michigan, 48186 United States	David Dixson	dixonlandscaping@yahoo.com	734-634-6565
		David Dixson	unknown@no-reply.com	734-634-6565
Dozer Tactical, Inc Org. Number: 768155	1191 Jaqueline Street Saginaw, Michigan, 48609 United States	Dave Bohl	dozertacticalequipment@gmail.com	989-484-9041
Duncan Video Org. Number: 556175	702 Adams Street Carmel, Indiana, 46032 United States	Bill Gaetz	bgaetz@duncanvid.com	888-538-2808
		Bill Gaetz	bgaetz@duncanvid.com	888-538-2808
E O Integrated Systems, Inc. Org. Number: 556595	12700 - 31 Mile Road Washington, Michigan, 48095 United States	Donald Rochon	dmrochon@eolsi.com	586-752-3200
		Donald Rochon	dmrochon@eolsi.com	586-752-3200
ELAN Engineering Org. Number: 557347	55309 Lyon Industrial Drive New Hudson, Michigan, 48165 United States	Michael Refalo	miker@elanengineering.com	248-615-9300 ext. 250
		Michael Refalo	unknown@no-reply.com	248-615-9300 ext. 250
Electronic Parts Specialists Org. Number: 559852	711 KELSO FLINT, Michigan, 48506 United States	DAVID TURNER	ELECTRONICPARTS@MSN.COM	810-238-7311
		DAVID TURNER	ELECTRONICPARTS@MSN.COM	810-238-7311
Electronic Safety Services, Inc. Org. Number: 556433	PO Box 8077720669 nine mile road Saint Clair Shores, Michigan, 48080 United States	Dan Drop	sales@electronicsafety.com	586-777-5578
		Dan Drop	sales@electronicsafety.com	586-777-5578
Elite Fire Safety Org. Number: 558955	23661 Telegraph Rd. Southfield, Michigan, 48033 United States	Nate Merritt	natem@elitefire.com	248-834-4467
		Nate Merritt	natem@elitefire.com	248-804-3498
		Robert Hensley	RobH@elitefire.com	248-834-4467
Emergency Communications Network Org. Number: 561860	780 W Granada Blvd Ormond Beach, Florida, 32174 United States	Chris Morrissey	christine.morrissey@onsolve.com	866-939-0911 ext. 1205
		Dave DiGiacomo	ddigiaco@ecnetwork.com	866-939-0911
		RFP Department	rfp@ecnetwork.com	866-939-0911

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Enforcement Products, Inc. Org. Number: 560703	927 E 67th Street Indianapolis, Indiana, 46220 United States	David Lowry	dave@enforcementproducts.com	317-254-5676
		David Lowry	dave@enforcementproducts.com	317-254-5676
Enforcement Video, LLC dba WatchGuard Video Org. Number: 559176	415 Century Parkway Allen, Texas, 75013 United States	Michael Burrige Jr	bids@watchguardvideo.com	800-605-6734
		Kyrie Endres	bids@watchguardvideo.com	214-785-2600
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		Jeff Brandt	jeff.brandt@securitycorp.com	248-374-5792
		Laura Jonik	laura.jonik@securitycorp.com	248-374-5819
Security Designs Inc. Org. Number: 556292	14700 Farmington Suite #110 Livonia, Michigan, 48154 United States	Robert Lipinski	secdes@flash.net	734-421-0077
		Robert Lipinski	secdes@flash.net	734-421-0077
Securus Technologies, Inc. Org. Number: 559539	14651 Dallas Pkwy, 600 Dallas, Texas, 75254 United States	Sara Sullivan	salesdirector@securustechnologies.com	972-277-0559
		Geoff Boyd	salesdirector@securustechnologies.com	972-277-0300
		Robert Pickens	bpickens@securustechnologies.com	972-277-0312
Shaw Electric Company Org. Number: 556778	22100 Telegraph Rd. Southfield, Michigan, 48033 United States	Kevin Bielski	kbielski@shawelectric.com	248-228-2000 ext. 2002
		Bryan Hatfield	bhatfield@shawsi.com	248-228-2034
		Mr. Robert Minielly	rminielly@shawelectric.com	248-228-2000
Shoreview Electric Company Org. Number: 556637	37839 Groesbeck Highway Clinton Township, Michigan, 48036 United States	Kevin Puma	kpuma@shoreviewelectric.com	586-463-8900
		Grace Pilarowski	gpilarowski@shoreviewelectric.com	586-463-8900
		Kevin Puma	kpuma@shoreviewelectric.com	586-463-8900
Siemens Industry, Inc. Org. Number: 556692	45470 Commerce Center Drive Plymouth Township, Michigan, 48170 United States	Siemens Industry, Inc.	sales.industry@siemens.com	734-456-3800
		Nathaniel Brown	nathaniel.brown@siemens.com	734-456-3800
		Tonya Silver	tonya.silver@siemens.com	734-456-3800
Sigma Associates, Inc. Org. Number: 556759	1900 St. Antoine Street Suite 500 Detroit, Michigan, 48226 United States	Gail Phillips	gphillips@sigmaassociates.com	313-963-9700
		Jenan Shayota	jshayota@sigmaassociates.com	313-963-9700
		Kathy Cotton	kcotton@sigmaassociates.com	313-963-9700
SimplexGrinnell Org. Number: 556839	24755 Halsted Road Farmington Hills, Michigan, 48335 United States	Mark Rossi	mrossi@simplexgrinnell.com	248-427-5050 ext. 5104
		Mark H. Rossi	unknown@no-reply.com	248-427-5050
		Melissa Barrett	mebarrett@simplexgrinnell.com	248-427-5050 ext. 5157
Sinacola International, Ltd. Org. Number: 774369	511 Olde Towne P.O. Box 80734 Rochester, Michigan, 48308 United States	David A Sinacola	dsinacola@gmail.com	248-318-3855
Smart Building Services LLC	6332 Belmont Ave NE	Joseph Napieralski	joen@sbsmi.com	616-822-6299

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Org. Number: 563803	Belmont, Michigan, 48306	Joseph Napieralski	joen@sbsmi.com	616-822-6299
Smart Offices Org. Number: 565517	4650 Moore St Okemos, Michigan, 48864 United States	Rob Nichols	c_rob1@msn.com	517-648-7180
		Rob Nichols	c_rob1@msn.com	517-648-7180
SoundCom Systems Org. Number: 556461	24600 North Industrial Drive Farmington Hills, Michigan, 48335 United States	Matthew Loveland	mloveland@soundcom.net	2488710713 ext. 313
		Jackie Davis	jdavis@soundcom.net	2488710712 ext. 1712
		Matt Loveland	mloveland@icommusa.com	248-960-3700
Sterling Security Org. Number: 562439	21700 Northwestern suite 832 Southfield, Michigan, 48075 United States	Eric Williamson	eric@sterlingsecurityllc.com	248-809-9309
		Eric Williamson	eric@sterlingsecurityllc.com	248-809-9309
Strategic Products & Services Org. Number: 563794	3355 Eagle Park Dr. NE, Suite 101 Grand Rapids, Michigan, 49525 United States	Karla Hansen	khansen@spscom.com	517-853-6065
		Karla Hansen	unknown@no-reply.com	517-853-6065
SunTel Services Org. Number: 556864	1095 Crooks Road Suite 100 Troy, Michigan, 48064 United States	Judy Iceman	judyiceman@suntel.com	248-654-3678 ext. 3678
		Don Jackson	donjackson@suntel.com	248-654-3660 ext. 3660
		Gary Jackson	garyjackson@suntel.com	248-654-3670 ext. 3670
Superior Lock & Key, LLC Org. Number: 558345	636 S. Rochester Road Rochester Hills, Michigan, 48307 United States	Rebecca Lula-Sykes	superiorlock@sbcglobal.net	248-656-0022
		Rebecca Lula-Sykes	superiorlock@sbcglobal.net	248-656-0022
Tel. Systems (Thalner Electronic Labs Inc.) Org. Number: 558808	7235 Jackson Road Ann Arbor, Michigan, 48103 United States	Paul Eiswerth	sales@thalner.com	734-761-4506
		Chris Lindsay	sales@thalner.com	734-761-4506 ext. 530
		Paul Eiswerth	sales@thalner.com	734-761-4506
Telecom Technicians, Inc. Org. Number: 556282	6975 19 Mile Road Sterling Heights, Michigan, 48314 United States	Fred Somes	fsomes@telecomtech.com	586-268-7000 ext. 1112
		Jon Somes	jsomes@telecomtech.com	586-268-7000
The DataCom Group Org. Number: 558554	3979 Holt RD Holt, Michigan, 48842 United States	Bryan Scott	bds@datacomgroup.com	517-699-5000
		Bryan Scott	bds@datacomgroup.com	517-699-5000
The OAS Group, Inc. Org. Number: 556485	1748 Northwood Troy, Michigan, 48084 United States	Erik Moin	emoin@s3svc.com	248-269-4050 ext. 222
		Erik Moin	emoin@oasgroup.com	248-269-4050
The Safety Company, LLC dba MTech Company Org. Number: 561535	7401 First Place Cleveland, Ohio, 44146 United States	Justin Cira	jcira@mtechcompany.com	440-646-0996
		Justin Cira	no-reply@unknown.com	440-646-0996

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	E-mail	Phone
Thumb Communication Services Org. Number: 556332	Post Office Box 679 Lapeer, Michigan, 48446 United States	Marc Marshall	mmarshall@thumbcommunication.com	810-664-6646
		Marco Marshall	tcs@intouchmi.com	810-664-6646
TMH Security Service Inc. Org. Number: 567520	91 Manchester Highland Park, Michigan, 48203 United States	Ryan Jerome	ryanjerome54@yahoo.com	248-519-3676
		Ryan Jerome	ryanjerome54@yahoo.com	248-519-3676
		Thomas Heffernan	tomheffernan@tmhsecurity.com	313-995-3198
Traffic Control Corporation Org. Number: 560779	239 E. Michigan Ave Suite 177 Paw Paw, Michigan, 49079 United States	David Grunwald	dgrunwald@trafficcontrolcorp.com	269-870-5478
		David Grunwald	Dgrunwald@trafficcontrolcorp.com	269-672-6048
		John Lizzadro	JLizzadro@trafficcontrolcorp.com	630-240-9686
Trendset Communications Group Org. Number: 560101	23885 Denton St CLINTON TOWNSHIP, Michigan, 48036 United States	casey johnson	cjohnson@tcg-pros.com	7347402815
		casey johnson	cjohnson@tcg-pros.com	7347402815
		Kelly Evans	kevans@tcg-pros.com	586-883-9157
tri state camera Org. Number: 559868	150 sullivan street brooklyn, New York, 11231 United States	Shmaya Friedlander	shmayaf@tristatecamera.com	212-633-2290 ext. 228
		Shmaya Friedlander	shmayaf@tristatecamera.com	212-633-2290 ext. 228
Troxell Communications Inc. Org. Number: 556296	4675 East Cotton Center Blvd Ste 155 Phoenix, Arizona, 85040 United States	Jerry Crubaugh	jerry.crubaugh@trox.com	586-532-1219
		Dave Woolson	dave.woolson@trox.com	248-798-1453
		Paul Champion	bids@trox.com	602-437-7240
Trusted Business Advisors LLC Org. Number: 565300	200 E. Big Beaver Rd Troy, Michigan, 48063 United States	Jeremi Hunter	jhunter@tbausa.net	586-360-9911
		Jeremi Hunter	jhunter@tbausa.net	586-360-9911
TS Systems Inc. Org. Number: 566879	2727 Second Ave. Suite 105a Detroit, Michigan, 48201 United States	Derrick Stallings	bid@tssystemsinco.com	313-444-9404
		Derrick Stallings	dSTALLINGS@tssystemsinco.com	313-444-9404
Tyco Integrated Security Org. Number: 557938	1501 Yamato rd. Boca Raton, Florida, 33431 United States	Edmund Glass	mhamilton@tyco.com	248-343-9191
		Edmund Glass	eglass@tyco.com	248-629-3004
		Mark Curran	mcurran@tyco.com	248-670-6877
UNICOM Government Org. Number: 567354	1300 E. Woodfield Road Schaumburg, Illinois, 60173 United States	Ed Michel	ed.michel@unicomgov.com	630-461-2962
		Ed Michel	ed.michel@unicomgov.com	630-461-2962
Unity Security Inc. Org. Number: 560594	172 E. Gardner St. Sparta, Michigan, 49345 United States	David Stallworth	dSTALLWORTH@unitysecurity.com	616-887-7767
		David Stallworth	DSTALLWORTH@unitysecurity.com	616-887-7767
US Metro Group, Inc	605 S. Wilton Place	Bonnie Manning	bonnie.m@usmetrogroup.com	213-382-6435 ext. 113

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Org. Number: 558738	Los Angeles, California, 90005 United States	Charles Kim	charles@usmetrogroup.com	213-382-6435
		Evelyn Kim	evelyn.k@usmetrogroup.com	213-382-6435
Utility Associates, Inc. Org. Number: 565869	250 E. Ponce de Leon Ave, Ste 700 Decatur, Georgia, 30030 United States	Amanda Havice	ahavice@utility.com	404-816-0300
		Jeff Johnson	jjohnson@utility.com	404-816-0300
Vanguard Fire & Security Systems Inc. Org. Number: 563015	28287 Beck Road Wixom, Michigan, 48393 United States	Jeffrey Wickman	jwickman@vanguard-fire.com	734-788-2030
		Jeffrey Wickman	jwickman@vanguard-fire.com	734-788-2030
Videotape Products, Inc. Org. Number: 561822	41210 Bridge Street Novi, Michigan, 48375 United States	Jon Stilson	jons@vtpcorp.com	313-819-9485
		Barbara Susca	barbaras@vtpcorp.com	818-566-9898 ext. 719
		John Palazzola	johnp@vtpcorp.com	818-566-9898
Vigilante Security, Inc. Org. Number: 556277	27215 Southfield Road Lathrup Village, Michigan, 48076 United States	Ronald Ross	rross@vigsec.com	248-559-7100
		Ronald Ross	rross@vigilantesecurity.com	248-559-7100
VION Corporation Org. Number: 558197	196 Van Buren Street, 3rd Floor Herndon, Virginia, 20170 United States	Armelle Tallec	atallec@vion.com	571-353-6016
		Jeff Henry	jeff.henry@vion.com	571-353-6000
VSC, Inc. Org. Number: 562676	46725 Magelland Drive Novi, Michigan, 48377 United States	Frank Kemmer	fkemmer@vsci.com	248-926-2540
		Frank Kemmer	fkemmer@vsci.com	248-926-2540
		Lorraine Kemmer	lkemmer@shopvsc.com	248-926-2540
W. T. BERESFORD CO. Org. Number: 556559	26400 LAHSER RD STE 408 SOUTHFIELD, Michigan, 48033 United States	Chris Beresford	chris@beresfordco.com	248-350-2900
		Chris Beresford	chris@beresfordco.com	248-350-2900
		Tom Beresford	tom@beresfordco.com	248-350-2900
Watchful Eye Inc. Org. Number: 567724	346 Summit Blvd Lake Orion, Michigan, 48362 United States	Len Krajenke	len@watchfuleyesecurity.net	248-834-9467
		Len Krajenke	len@watchfuleyesecurity.net	248-834-9467
Weber Security Group, Inc. Org. Number: 557956	95 South Rose Street Suite A Mount Clemens, Michigan, 48043-2187 United States	Mark Oldenburg	wsinfo@webersecurity.com	586-582-0000 ext. 537
		Mark Oldenburg	mark.oldenburg@webersecurity.com	586-582-0000
		William D. Weber, Jr.	william.weber@webersecurity.com	586-582-0000
Wesco Distribution Org. Number: 557500	3440 Dunkel Road Lansing, Michigan, 48911 United States	Scott Jager	sjager@wesco.com	517-887-0140
		Scott Jager	sjager@wesco.com	517-887-0140
		Tim Cornell	tcornell@wesco.com	517-887-0140
West Shore Services, Inc.	6620 Lake Michigan Drive, P.O. Box 188	Jeff DuPitka	sdecker@westshoreservices.com	616-895-4347 ext. 112

Matching Supplier List: Security System Upgrades - Security System Upgrades Project

Organization	Address	Contact	Email	Phone
Org. Number: 562335	Alfordale, Michigan, 49401 United States	Jeff DuPilka	jdupilka@westshoreservices.com	616-895-4347 ext. 112
		Shelley Decker	sdecker@westshoreservices.com	616-895-4347
Wiltec Technologies, Inc Org. Number: 558240	4201 Varsity Drive, Suite D Ann Arbor, Michigan, 48108 United States	Jack Wilson	leads2@wiltecinc.com	734-975-2107
		Matt McKernan	mmckernan@wiltecinc.com	313-580-1809
		Wiltec Leads	leads2@wiltecinc.com	734-677-1401
WinCan LLC Org. Number: 563256	300 Cedar Ridge Drive Pittsburgh, Pennsylvania, 15205 United States	Timothy Mallon	t.mallon@wincan.com	412-335-8271
		Timothy Mallon	tmallon@pipelineanalytics.com	412-335-8271
WWTS, L.L.C. - World Wide Technical Services Org. Number: 557965	3586 Merriweather Ln Rochester Hills, Michigan, 48306 United States	LaVerne Farmer	wwtsl.lc@att.net	248-670-1321
		Darryl Farmer	dfarmer@wwtsllc.net	248-672-7617



Financial Services – Purchasing Division

NOTICE

Thank you for your inquiry regarding the City of Pontiac project listed below:

Security System Upgrades Project

If your firm plans to bid on this project, please send an e-mail response to MMcKenzie@pontiac.mi.us with the following information:

Firm Name: _____

Project Name: _____

Firm's Contact Person: _____

Telephone Number: _____

Fax Number: _____

E-Mail Address: _____

Postal Address: _____

The City of Pontiac Purchasing Division will use this information to communicate with you in the event an addendum or change to this project is issued. If you do not send this information to the City of Pontiac, you will not receive any follow-up notification of any changes to the project.

NOTICE TO BIDDERS

The City of Pontiac will open sealed bids on Tuesday, December 12, 2017 at 2:00 p.m. prevailing local time in the City Hall Lion's Den conference room at 47450 Woodward Ave for:

Security System Upgrades Project

You are invited to submit a bid for this project. Sealed bids may be mailed or delivered to the CITY OF PONTIAC, CITY CLERK, 47450 Woodward Ave., Pontiac, MI 48342 by 2:00 PM, Tuesday, December 12, 2017. Envelopes should include the name and mailing address of the vendor on the outside and be plainly marked:

"Security System Upgrades Project"

No proposal submitted may be withdrawn for at least ninety (90) days after the actual opening of the proposal.

A **MANDATORY** pre-bid meeting will be held at Pontiac City Hall, 47450 Woodward Ave., Pontiac, MI, 48342, on Monday, December 04, 2017 at 10:00 AM. There will be a walk-through of City Hall and the Oakland County Sheriff's Department building, located next to Pontiac City Hall, at 110 E Pike Street, Pontiac, MI 48342. The proposal and contract requirements will be discussed at said meeting and it is *mandatory* that all bidders attend. **All contractors will need to provide ID and prove they represent their company.**

Please refer to the website for any addenda that may be issued. Bidders who submit bids before the deadline are advised to continue to monitor the website for any addenda that may be issued.

Purchasing: <http://www.pontiac.mi.us/departments/finance/purchasing.php>

The City reserves the right to reject any or all bids, to waive any irregularities, and further reserves the right to accept any bid or parts of bids that it deems to best serve the interest of the City.

If you have any general questions regarding this RFP, please contact Michelle McKenzie, Purchasing Agent, at (248) 758-3120 or send an email to MMcKenzie@pontiac.mi.us

If you have technical questions regarding the RFP they should be directed, via e-mail, to the following contact John Balint, Interim DPS Director, jbaint@pontiac.mi.us by 4:00 PM EST on Thursday, December 7, 2017.

Responses to all questions received will be returned to all vendors. Vendor names, where mentioned, will be left out.

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1. INSTRUCTIONS TO BIDDERS

1.1 Bids to be Received

Sealed bids for the Security System Upgrades Project will be received at the Office of the City Clerk of the City of Pontiac, Michigan until 2:00 PM, Tuesday, December 12, 2017, and immediately thereafter will be publicly opened and read.

Each bid must be submitted in a sealed envelope and addressed to the City Clerk of the City of Pontiac. Each sealed envelope containing a bid must be plainly marked on the outside as "Security System Upgrades Project", and the envelope should bear on the outside the name of the bidder, his address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to the City Clerk, City of Pontiac at 47450 Woodward Avenue Pontiac, MI 48342. Facsimile or electronic bids shall not be accepted.

Bids will be received during regular business hours at the place and up to the time stated in the advertisement. Any extension in time will be by official notification. Bids may be delivered in person or mailed, but their delivery is the bidder's entire responsibility. Any bid received after the stated hour, even through the mail, will be returned unopened to the bidder.

1.2 Examination of Bid Documents

Before submitting a proposal, bidders shall carefully examine the specifications and shall fully inform themselves as to all existing conditions and limitations and shall indicate in the proposal the sum to cover the cost of all items included on the bid form.

1.3 Withdrawal of Bids

Any bidder may withdraw his proposal, in writing, at any time prior to the scheduled closing time for receipt of proposals. No bidder may withdraw a bid within sixty (60) days after the actual date of the opening thereof. Should there be a reason why a contract cannot be awarded within the specified period; the time may be extended by mutual agreement between the City of Pontiac, herein after also referred to as the City, and the bidder.

1.4 Bid Form

Bid must be submitted on proposal form and all pages of this bid must be returned with your bid response, and shall be submitted in a sealed envelope bearing the title of work and the name of the bidder, and shall be signed by an individual authorized to execute the proposal on behalf of the bidder. Additional information can be added as an addendum. Bids must be typed or submitted in ink. Erasures or other changes must be initialed by the person signing the bid. Obligations assumed by such signatures are considered binding. The City of

Pontiac is exempt from Federal excise taxes and State sales taxes and such taxes will not be included in the bid price. All bid prices shall be on an F.O.B. Destination, with all transportation charges of any nature to be paid by the bidder. F.O.B. delivered means delivered to the receiving point: City of Pontiac, 47450 Woodward Ave., Pontiac, MI 48342.

1.5 Basis of Award

The evaluation and award of this bid shall be based on a combination of factors including but not limited to the following: Experience and qualifications, price, completeness of proposal, i.e., the degree to which it responds to all requirements and request for information contained herein, companies financial resources to carry out the needed services, the companies demonstrated capabilities and qualifications including the number of employees within the organization to handle a project of this size in a timely manner, compliance with the City's specification and any other factors considered to be in the City's best interest. The successful respondent will demonstrate at least seven (7) years of experience with the major manufacturer components specified in this document. The respondent will need to provide a copy of a valid state license for Security Alarms.

1.6 Bid Bond

No bid bond required.

1.7 Pre-Bid Meeting

A MANDATORY pre-bid meeting will be held at Pontiac City Hall, 47450 Woodward Ave., Pontiac, MI, 48342, on Monday, December 04, 2017 at 10:00 AM. There will be a walk-through of City Hall and the Oakland County Sheriff's Department building, located next to Pontiac City Hall, at 110 E Pike Street, Pontiac, MI 48342. The proposal and contract requirements will be discussed at said meeting and it is *mandatory* that all bidders attend.

All contractors will need to provide ID and prove they represent their company.

2. TERMS AND CONDITIONS

2.1 Laws and Municipal Ordinances, Permits

The Bidder shall be fully informed of all laws and municipal ordinances and regulations in any manner affecting those engaged or employed in the work, or equipment and materials used in the work, and all others and any decrees of bodies or tribunals having any jurisdiction or authority over the same. The Bidder shall at all times observe and comply with all such existing laws, codes, ordinances, regulations, orders, and decrees. In particular, all work shall be in compliance with the laws of the State of Michigan, City ordinances, as well as all other bodies having jurisdictional authority.

The Contractor shall be responsible for obtaining and paying for any and all permits that may be required for this project and shall be responsible for arranging all required inspections if needed.

2.2 Non-Discrimination

The Bidder agrees to comply with the Federal Civil Rights Act of 1964 as amended; the Federal Civil Rights Act of 1991 as amended; the Americans with Disabilities Act of 1990 as amended; the Elliott-Larsen Civil Rights Act, Article 2, Act no. 453, Public Act of 1976 as amended; the Michigan Handicapper's Civil Rights Act, Article 2, Act no. 220, Public Act of 1976, as amended and all other applicable federal, state and local laws and regulations. Specifically, Bidders and subcontractors are required not to discriminate against any employee or applicant for employment with respect to such person's hire, tenure, terms, conditions, or privileges of employment, or any matter directly or indirectly related to employment because of such person's height, weight, race, color, religion, national origin, ancestry, age, marital status, sex or disability, as defined by law. Breach of this covenant may be regarded as a material breach of the contract.

2.3 Indemnification

To the fullest extent permitted by laws and regulations, the Bidder shall indemnify and hold harmless the City and its officers, directors, employees, agents, and consultants from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) caused by, arising out of, or resulting from the performance of the work or from the failure to comply with any covenant or term of the contract, provided that any such claim, cost, loss, or damage: (i) is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the work itself), including the loss of use resulting there from; or, (ii) is caused in whole or in part by any act or omission of the Bidder, any subcontractor, any supplier, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, regardless of whether or not caused in part by any act or omission of a person or entity indemnified hereunder or whether liability is imposed upon such indemnified party by laws and regulations regardless of the negligence of any such person or entity.

In any and all claims against the City or any consultants, agents, officers, directors, or employees of the City by any employee (or the survivor or personal representative of such employee) of the Bidder, any subcontractor, any supplier, any person or organization directly or indirectly employed by any of them to perform or furnish any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation above shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Bidder or any such subcontractor, supplier or other person or organization under workers' compensation acts, disability benefit acts, or other employee benefit acts. Insurance coverage required of the Bidder constitutes the minimum requirements and those

requirements shall in no way lessen or limit the liability of the Bidder under the terms of the contract. The Bidder shall procure and maintain at Bidder's own cost and expense any additional claims or amounts of insurance that, in the judgment of the City, may be necessary for Bidder's proper protection in the prosecution of the work.

2.4 Jurisdictional Authority

This contract shall be governed by and construed according to the laws of the State of Michigan and the successful Bidder consents to the jurisdiction and venue of the courts in Oakland County, Michigan and of the United States District Court for the Eastern District, Southern Division.

2.5 Severability

The successful Bidder will agree that the Contract is the completed and exclusive statement of the Contract between the parties. A judicial or administrative declaration on the invalidity of any one or more of the provisions of the Contract shall not invalidate the remaining provisions of this agreement.

2.6 Income Taxes

Contractor agrees to contact City of Pontiac Income Tax Division, Audit and Compliance Section, 47450 Woodward, Pontiac, Michigan, 48342, telephone (248) 758-3236, to establish reporting and withholding obligations under the City of Pontiac income tax ordinance. Contractor will require the same of all subcontractors employing labor under this contract.

Contractor is required to withhold City of Pontiac income tax from wages paid to:

- a. Pontiac resident employees regardless of where they work for the employer; and
- b. Nonresident employees for work performed in the City.

Contractor is also required to file Pontiac income tax returns and to report and pay income tax on the net profits earned by the contractor in the City of Pontiac.

Web page URL: http://www.pontiac.mi.us/departments/income_tax/index.php

Tax forms URL: http://www.pontiac.mi.us/departments/income_tax/tax_forms.php

2.7 Compensation and Payment

All invoices submitted against the contract must identify the work performed in detail. Items not properly invoiced will not be paid. It is the vendor's responsibility to ensure delivery of invoice(s) to the City. Invoices must meet the following conditions for payment:

- a. Price on invoice must correspond to the pricing listed on purchase order and/or contract.
- b. Contractor must submit price lists in accordance with bid requirements.

- c. All invoices will be original.
- d. Invoices will be signed by the individual responsible for authorizing contract payments for the City of Pontiac.
- e. Payment will be made after each order is received, inspected, and found to comply with procurement specifications, free of damage, properly invoiced, and including all installation, training and evaluation of proper functioning.

Original invoice must be submitted to the City of Pontiac, Attn: Accounts Payable.

Payment Terms – Net 30

2.8 General Conditions

It is the responsibility of the Bidder to review General Conditions as specified.

In the quotation, a distinction between dollars and cents must be made. Also, illegible bids may be grounds for rejection of your bid. White out may be grounds for rejection. All changes made to the bid form altering price, terms, quotes, and/or conditions **MUST** be crossed out and initialed. Failure to initial any changes may be grounds for rejection of your bid.

All funds must be quoted in US dollars

2.9 Quotations/Proposals

Bidders **MUST** submit an original and one copy of the bid quotation/proposal. Additionally, duplicate copies of all descriptive literature and/or samples must be provided as requested.

2.10 Minor Deviations

Specifications referred to herein are used to indicate desired type, and/or construction, and/or operation or services rendered. Other products and/or services may be offered if deviations from specifications are minor and if all deviations are properly outlined and stated in the bid document. Failure to outline all deviations may be grounds for rejection of your bid.

The decision of the City of Pontiac, acting through the Purchasing Agent, shall be final as to what constitutes acceptable deviations from specifications.

2.11 Bonds and Insurance

Receipt of bonds and/or insurance is part of the process of determining which bidder may be recommended for award to the City Administrator. If cause is found to change the recommendation that your company be awarded the contract, or if the City Administrator does not approve the recommendation, the City shall not be liable for any costs incurred by you in the bid process, including the cost of acquiring bonds and/or insurance.

The contractor, and any and all of their subcontractors, shall not commence work under this contract until they have obtained the insurance required under this paragraph. All coverage shall be with insurance companies licensed and admitted to do business in the State of Michigan. All coverages shall be with insurance carriers acceptable to City of Pontiac. The limits required below do not limit the liability of the Contractor. All deductibles and SIRs are the responsibility of the Contractor.

Workers' Compensation Insurance The Contractor shall procure and maintain during the life of this contract, Workers' Insurance, including Employers Liability Coverage, in accordance with all applicable statutes of the State of Michigan with a minimum limit of \$100,000 each accident for any employee. Exclusions for Workers' Compensation Insurance is not accepted.

Commercial General Liability Insurance: The Contractor shall procure and maintain said insurance during the life of this contract, for: Commercial General Liability Insurance on an "Occurrence Basis" with limits of liability not less than \$ 1,000,000 per occurrence and aggregate. Coverage shall include the following extensions: (A) Contractual Liability; (B) Products and Completed Operations; (C) Independent Contractors Coverage; (D) Broad Form General Liability Extensions or equivalent, if not already included.

Additional Insured: Commercial General Liability and Motor Vehicle Liability, as described above, shall include an endorsement stating the following shall be **Additional Insureds:** The City of Pontiac, all elected and appointed officials, all employees and volunteers, all boards, commissions, and/or authorities and board members, including employees and volunteers thereof. It is understood and agreed by naming the City of Pontiac as additional insured, coverage afforded is considered to be primary and any other insurance the City of Pontiac may have in effect shall be considered secondary and/or excess.

Cancellation Notice: Workers' Compensation Insurance, Commercial General Liability Insurance, and Motor Vehicle Liability Insurance, as described above, shall be endorsed to state the following: "It is understood and agreed Thirty (30) days, Ten (10) days for non-payment of premium, Advance Written Notice of Cancellation, Non-Renewal, Reduction, and/or Material Change shall be sent to: Risk Manager, City of Pontiac, 47450 Woodward Avenue, Pontiac, MI 48342."

Proof of Insurance Coverage: The Contractor shall provide the City of Pontiac, at the time the contracts are returned by him/her for execution, a Certificate of Insurance as well as the required endorsements. In lieu of required endorsements, if applicable, a copy of the policy sections where coverage is provided for additional insured and cancellation notice would be acceptable. Copies or certified copies of all policies mentioned above shall be furnished, if so requested.

2.12 Performance Bond

No performance bond shall be required.

2.13 Payment Bond

No payment bond shall be required.

2.14 Maintenance and Guarantee Bond

A maintenance and guarantee bond is not required.

2.15 Subcontracting

The City of Pontiac will allow subcontracting for any part of the goods and/or services proposed in this RFP. The Contractor will need to note all subcontractors in their proposal and state their name and role in the project. The subcontractors shall have proper credentials, certifications and licenses required by law.

3. DESCRIPTION OF WORK

3.1. GENERAL

The City of Pontiac is requesting a bid proposal for the purpose of issuing a Contract for Security System Upgrades. Bidder will need to complete the following scope of services.

3.2 SCOPE OF WORK

The City of Pontiac is seeking to upgrade the security systems including the existing video surveillance system and card access control system; the City is also seeking a new intrusion detection system at the City of Pontiac City Hall, 47450 Woodward Avenue Pontiac Michigan 48342. These systems shall be capable of seamless integration with the Lenel OnGuard Access control system.

Included in this request is the replacement of the existing video surveillance at the Oakland County Sheriff's Department building, located next to Pontiac City Hall, at 110 E Pike Street, Pontiac, MI 48342.

Training is to be provided for all systems listed in this request and as a fully integrated system. Required training times are to be as 3 sessions, each session to be in 4 hours. Training is to be listed on the Proposal Form (page 26) of this document.

The vendor shall provide a full 1 year warranty and service agreement on all parts and labor that are supplied in this Bid.

3.3 NON-ASSIGNMENT OR TRANSFER

The service provided for under the contract shall allow for subcontracting.

3.4 CITY RULES

Employees of Contractor shall comply with all instructions, and building regulations issued by representative of the City of Pontiac.

3.5 TERM OF CONTRACT

The term of the Contract, is the equipment and materials for City Hall are to be invoiced on or before January 12, 2018. The remaining equipment and materials for Sheriff's Department, both charges for installation and training fees are to be invoiced after the completion of work. At the end of the term of the agreement, the City may want to continue a support contract with the provider once the equipment has been installed. City has right to break agreement with 30 days' written notice.

3.6 PROGRESS PAYMENTS/RETAINAGE

This contract is not subject to progress payments or retainage.

THIS ENDS THE ABOVE SECTION

FOLLOWING PAGES ARE BID PROPOSAL FORMS AND SAMPLE CONTRACT

FORM OF PROPOSAL

To: City of Pontiac, Michigan _____, 2017

To All Here Present:

Having carefully examined the bid for the proposed work, and being fully informed in regard to the conditions to be met in the prosecution and completion of the work, and having read and examined the Instructions to Bidders, Agreement, Bonds, General Conditions, Plans and Specifications pertaining to this work and agreeing to be bound accordingly, the undersigned proposes to furnish all the materials, labor, and other equipment as necessary in full accordance with and conformity to the plans and specifications for this work now on file in the office of the City's at and for the following named prices, to wit:

NOTE: This proposal is solicited on a unit price or lump sum for all items.

THIS BID PROPOSAL MUST BE SUBMITTED BACK TO THE CITY OF PONTIAC IN ITS ENTIRETY AS PART OF THE CONTRACTORS BID SUBMISSION. MAKE SURE THAT ALL PAGES ARE COMPLETELY FILLED OUT AND THAT ALL INFORMATION REQUESTED IS COMPLETE. FAILURE TO DO SO MAY BE CAUSE TO REJECT YOUR BID PROPOSAL. IF A BID IS NOT BEING SUBMITTED FOR A PARTICULAR AREA OF WORK, PLEASE MARK "NO BID" IN THE APPROPRIATE SPACE.

SPECIFICATIONS FOR THE SECURITY SYSTEM UPGRADE

PONTIAC CITY HALL REPLACEMENT VIDEO SURVEILLANCE SYSTEM SPECIFICATIONS AND REQUIREMENTS

CURRENT VIDEO CONFIGURATION - City of Pontiac City Hall

Video System:

- 1) DVR
- 2) Total of 25 fixed analog cameras
- 3) Various Monitors

Basic Scope:

The existing analog cameras will be taken off the existing DVR and re-connected to multiple 4 port video encoders that will convert the analog signal to IP, so it can be recorded on a new network video recorder (NVR). All encoders will connect to a new 24 port PoE security Web Smart Network Switch, supplied by the awarded vendor. A Video Client Workstation will also be installed at City Hall to view the City Hall cameras. There will be a monitor, keyboard and mouse at the client workstation. All camera licenses (Enterprise Level) are to be included as needed to provide a turnkey video solution.

An additional environmental 3MP IP Camera will be mounted on the east side of the building to view the main entrance of the building walkway back towards the drive and parking Lot.

- A. All new cable, patch cables, licensing and miscellaneous hardware must be included to provide the above scope.
- B. Initial product training to be included with the purchase of the system.

Products herein are based on the City of Pontiac standard and must be compatible for seamless integration with Lenel Security Systems and Software.

PART 1 GENERAL

1.1. SUMMARY

- A. This Section specifies the minimum requirements for the City of Pontiac Security Systems Upgrade Project. This Security Video Surveillance System shall include but is not limited to the following:
 - 1. Network Video Management Software (NVMS)
 - 2. Network Video Recording Hardware (NVR)
 - 3. Network Switch
 - 4. IP Video Cameras
 - 5. Network Video Encoders
- B. Related Requirements:
 - 1. All related sections must be:
 - a. Able to function autonomously during a failure of one of the related sections
 - b. Able to communicate bi-directionally
 - c. Must be provided as a "turnkey" solution
 - 2. The following sections related to this section:
 - a. Access Control System
 - b. Intrusion Detection System

1.2. ADMINISTRATIVE REQUIREMENTS

- A. Coordination
 - 1. Coordinate with owner regarding camera network configuration and estimated bandwidth utilization prior to connection of cameras to owner's network.

1.3. SUBMITTALS

Submittals described in this section shall be submitted by the Contractor with the original bid.

- A. Product Data
 - 1. Submit manufacturer technical specifications, typical installation drawings, system overview drawings and sample images of items included in this section.
- B. Proposal Delta
 - 1. It is the duty of the contractor to provide a working system. Any omissions or errors or differences between this document and the contractor's submitted proposal shall be clearly outlined in a separate document labeled "[*COMPANY NAME] Proposal Deltas".
- C. Qualification Statements
 - 1. Contractor
 - a. Submit confirmation that contractor is licensed to install video surveillance and security equipment as required by the authority having jurisdiction.

- b. Submit references with contact information where contractor has installed items in this section.
- c. Submit confirmation that installer has received manufacturer training and is certified by the manufacturer on this equipment and that the training the installer received is current.

1.4. QUALITY ASSURANCE

A. Qualifications

1. Installers

- a. All camera installation, configuration, setup, program and related work shall be performed by authorized integrators/electronic technicians certified by the manufacturer.
- b. Certification for authorized integrators/electronic technicians shall include at a minimum the installation and service of the equipment provided.

1.5. WARRANTY

- A. Contractor shall provide any software maintenance patches and version updates or upgrades at no-additional cost to Owner for a period of at least one (1) year.
- B. Contractor will provide complete 1-year parts and labor warranty for the products provided in this project.

PART 2 PRODUCTS

2.1. NETWORK VIDEO MANAGEMENT SERVER(S)

A. Acceptable Manufacturer(s):

- 1. Design based on Avigilon™ server Hardware and Storage Expansions
- 2. Other Manufacturers accepted
 - a. Dell
 - b. HP
 - c. Other equivalents considered

- B. The Video Management System shall allow the use of off-the-shelf computers, servers, storage and switches from any manufacturer with components that meet the minimum requirements.
 - 1. Contractor shall supply all 19" rack support rails, mounting kits, and cable management modules to install Video Management server.
 - 2. The Performance requirements for the VMS Server are as follows:
 - a. Form Factor: 1- 2U Rack Mounted
 - b. Processor: Intel Xeon Processor (current generation)
 - c. System RAM: 8 GB
 - 3. Internal Storage Hard Drive(s): Hot swappable, RAID configuration
 - a. Storage shall be 12TB, RAID 5.
 - b. At least two Network Interface(s): minimum 1GbE per port
 - c. Operating System shall be certified to work by the Video Management Software's manufacturer.

- This Network Video Management Server will be utilized for both the City Hall and the Oakland County Sheriff's Department Video Surveillance System mentioned later in this document.

2.2. NETWORK VIDEO MANAGEMENT WORKSTATION(S)

- A. Acceptable Manufacturer:
 - 1. Design based on Avigilon™ server Hardware with Internal Storage
 - 2. Provide all marketing sheets and specification documentation on products proposed within the proposal response
 - 3. Other manufacturers may be considered and accepted
 - a. Dell
 - b. HP
 - c. Equivalents considered
- B. The Video Management Workstation shall allow the use of off-the-shelf computer components that meet the minimum performance requirements.
- C. The Performance requirements for the VMS workstation are as follows:
 - 1. Processor: 6th Gen Intel Core i5-6600 or newer
 - 2. System RAM: 8 GB RAM
 - 3. Network Interface: 2 Gigabit Ethernet ports
 - 4. Operating System shall be certified to work by the Video Management Software's manufacturer and be the following: Microsoft Windows Embedded Standard 7

2.3 Monitors

- A. All Monitors shall be a minimum 32" 1080p with proper inputs for the workstations output.
 - 1. Must be commercial grade and operate 24/7.

2.4 NETWORK VIDEO MANAGEMENT SOFTWARE (NVMS)

- A. Acceptable Manufacturer:
 - 1 Design based on Avigilon™ Control Center 6 (current version)
 - 2 Other Manufacturers accepted
 - a. Lenel
- B. Contractor shall provide all applicable Network Video Management Software (NVMS) modules and licenses (Enterprise Level) required to provide a complete and fully functional integration.
- C. The NVMS shall be installed on hardware which meet or exceed the manufacturer's recommended requirements:

- D. The design and performance requirements for the NVMS software are as follows:
1. The NVMS shall be available as a stand-alone software offering or pre-loaded on turn-key workstations and servers running Microsoft Windows with configurable storage.
 2. The NVMS shall be available in a staged licensed software solution at the Enterprise Level.
 3. The NVMS shall be an enterprise level software solution that shall be scalable from one client, server and camera up to:
 - a. 100 servers per Site.
 - b. 300 cameras per server or 10,000 cameras per Site
 4. The NVMS shall consist of server software applications and client software applications.
 5. The NVMS shall include a gateway software application that connects mobile devices and other thin clients to the NVMS.
 6. The Network Video Management Software (NVMS) shall support integration with iOS and Android mobile devices with the ACC Mobile app installed.
 7. The ACC Mobile app shall provide the following functionality:
 - a. Receiving push notifications for alarms:
 - i) The Mobile device shall have the ability to receive alarm notifications on supported iOS and Android devices.
 - ii) The Mobile device shall have the ability for personnel to receive instant alarm notifications.
 8. The NVMS shall support High Definition Stream Management (HDSM)[™] architecture which includes:
 - a. Support for industry standard compression formats including but not limited to:
 - i) JPEG2000
 - ii) MJPEG
 - iii) MPEG-4
 - iv) H.264
 - b. High Definition Stream Management (HDSM) shall be supported for local users, remote users and mobile devices.
 9. The Network Video Management Software (NVMS) shall support recording and management of video and audio sources including but not limited to:
 - a. Avigilon[™] IP Cameras and Encoders
 - b. Arecont Cameras
 - c. Axis Cameras/Encoders
 - d. Bosch Cameras/Encoders
 10. The NVMS shall support receiving digital input triggers and triggering digital outputs through an I/O board.

11. The NVMS will provide the mechanism by which individual alarm(s) from a 3rd party system (access control, etc.) can be pre-selected and configured to be monitored, and in turn trigger event driven video operations.
12. The NVMS shall support integration with the following systems:
 - a. Lenel OnGuard
13. The NVMS shall run as a service configured to automatically start when the server or workstation is powered on, and automatically recover from failure or attempted tampering.
14. The NVMS shall support receiving Simple Network Management Protocol (SNMP) messages from servers and alert users.
15. The NVMS shall detect if the video or audio signal is lost and alert the system administrator.
16. The NVMS shall perform motion detection on each individual video source with adjustable sensitivity, threshold and detection zones.
17. The NVMS shall provide the ability to create and schedule alarms and corresponding actions including:
 - a. Provide the ability to email users and system administrators when an event or system health error occurs.
 - b. Provide the ability to schedule when email notifications are sent.
 - c. Provide the ability to include camera images in email notifications.
18. The NVMS shall provide the ability to create customized on-screen messages and email notifications.
19. The NVMS shall provide a maintenance log and audit trail of all system errors and events.
20. The NVMS shall provide the ability to enable and configure PTZ control on the RS-485 interface of a video source.
21. The NVMS shall support the use of uni-directional and bi-directional audio.
 - a. The NVMS shall provide the ability to synchronize audio and video on playback regardless of video, audio, network, or storage parameters
22. The NVMS shall support live or recorded video monitoring in a customizable video display beyond the standard layouts.
23. The NVMS shall offer a Matrix Application Module to provide remote control of multiple monitor displays, including video walls, that can be controlled by an unlimited number of users with appropriate rights and permissions.
 - a. A monitor display connected to the Matrix Application Module shall be able to simultaneously display video streams from multiple sites.
24. The NVMS client software shall:
 - a. Not limit the number of monitors used for monitoring video and audio streams connected to a single workstation.
 - b. Support monitoring live and recorded video and audio streams simultaneously on the same monitor.
 - c. Support viewing the same live or recorded video stream at different zoom levels and areas of interest.
 - d. Support the ability to save views.

- e. Support the ability to cycle through views (guard tour) based on a specified interval.
25. Alarm and Digital Output Management:
- a. The NVMS shall support monitoring alarms.
 - b. The NVMS shall support the ability to designate one or more regions/tiles in a window for displaying video directly linked to triggered alarms and rules.
 - c. The NVMS shall support the ability to acknowledge alarms from the designated video display area.
 - d. The NVMS shall support the ability to manually trigger digital output:
 - i) Through the use of a pre-configured software "button".
 - ii) Through the use of a hard-wired dry alarm contact connected to a supported input/output device.
 - e. The NVMS shall support the ability to assign alarms to users.
 - f. The NVMS shall support the ability to acknowledge alarms.
 - g. The NVMS shall support the ability to bookmark alarms.
26. The NVMS shall support creating bookmarks for recorded video and audio. Bookmarks can be:
- a. Viewed from multiple sources
 - b. Displayed on the timeline during playback
 - c. The NVMS shall support protecting a bookmark so the video and audio data is never overwritten.
 - d. The NVMS shall support private bookmarks that are only visible to the user who designated a bookmark as private, and the system administrator.
27. The NVMS shall support the ability to create a map that represents the physical location of cameras and other devices throughout the surveillance system.
- a. Maps shall support the ability to drag and drop a video source from the map into a window for live or recorded video and audio monitoring.
 - b. Cameras in a map are highlighted when an alarm linked to the camera is triggered.
28. The NVMS shall support physical and digital zooming and panning on live and recorded video streams.
- a. The NVMS shall support controlling mechanical pan-tilt-zoom, iris, and focus as well as setting presets and patterns.
 - b. The NVMS shall provide the ability to name pan-tilt-zoom presets.
 - c. The NVMS shall support the ability to center a PTZ camera's field of view by clicking anywhere on the video image where the PTZ supports this function.
 - d. The NVMS shall support the ability to click and drag to define an area for the PTZ camera to optically zoom and center on, where the PTZ supports this function.
 - e. The NVMS shall support controlling mechanical pan-tilt-zoom camera on-screen display and auxiliary controls.

- f. The NVMS shall support control of a mechanical pan-tilt-zoom camera with a USB joystick.
29. The NVMS shall support the ability to create PTZ guard tours by combining a set number of presets that are run in sequence or random.
 30. The NVMS shall support playback of recorded video and audio.
 - a. Forward and reverse playback of recorded video and audio at variable speeds.
 31. The NVMS shall support searching through recorded video and audio based on various search criteria. Including but not limited to the following parameters:
 - a. Time & Date
 - b. Video source
 - c. Alarm(s) and/or Event(s).
 - d. Motion in user defined areas (pixel search).
 - e. License Plate detection events.
 - f. Bookmarks
 32. The NVMS shall support performing a search through a series of thumbnail images.
 - a. Thumbnails can be based on the entire image region or a pre-selected area.
 - b. Thumbnails can be stacked to support an automatic secondary search when looking at a large timespan of video.
 33. The NVMS shall support the ability to take a snapshot of a live or recorded image and export it from the system.
 - a. Enterprise Level Camera Licensing will be provided for all cameras as needed.

2.5 3MP Video Camera

A. Manufacturers

1. Avigilon Outdoor Fixed Dome Network Camera
 - a. Avigilon H4 Outdoor Day/Night IP Dome Camera with Self Learning Analytics model Avigilon 3.0C-H4A-DP1 – Or pre-approved equivalent

B. ACCESSORIES

1. The camera shall be supplied with the following accessories as identified:
 - a. Model "H4A-MT-WALL1" - Indoor/Outdoor Pendant Mounting Bracket

C. Additional Manufacturers Accepted-must be approved equal:

1. Axis
2. Bosch
3. Pre-approved equivalent

- D. New cameras added into the system as part of this project will require plenum rated Cat6 cable needed to provide full camera functionality. This cable is to be supported following proper cable management standards, and not open to the public or laid on drop ceilings.

Alternate – Mobile Remote Camera Kit

Please provide in your response equipment and cost of a complete mobile remote camera system with mobile data package for access to the camera from a remote location.

Minimum Specifications:

- A. 3G/4G/LTE Omni-Directional Vandal Resistant Antenna
- B. Airlink Ruggedized Gateway Modem, 4G LTE
- C. 1 year of Mobile Data 4G LTE Plan (minimum 5 Gig per month streaming)
- D. Minimum 3MP IP Outdoor Camera with LightCatcher technology, WDR, Integrated IR, 256GB SSD, self-learning analytics
- E. Camera Licensing
- F. Environmental Enclosure
- G. Batteries

All components needed for remote monitoring and recording of a working system need to be included.

PONTIAC CITY HALL REPLACEMENT ACCESS CONTROL SYSTEM SPECIFICATIONS AND REQUIREMENTS

Access Control Scope:

The existing access control system shall be converted to be a Lenel OnGuard Access Control System, capable of seamless integration with other sections of the bid request including but not limited to; intrusion detection, fire protection and video surveillance. The new system will be configured for the current number of existing access control doors (Main Front Entrance), along with new access control doors at the following locations: Lower level entrance, Mayors Office, IT Department, Clerks Office, DPW Office, Treasury Office, Building and Safety Office, HR Office, Finance Office and Council Office. This system also must be expandable for future growth.

The City of Pontiac will provide a server for the new Lenel Software, along with connectivity to the network. The new Lenel access control system shall be scalable and allow for a virtually unlimited number of card access doors and cardholders in the system.

- A. All new cable, patch cables and miscellaneous hardware must be included to provide the above scope.
- B. Initial product training to be included with the purchase of the system.
- C. All access control openings to have door contact on each door and request to exit motion sensors.

New Products:

Acceptable Access Control System Manufacturers: Lenel

Acceptable Access Control Equipment:

Lenel LNL-2220
Lenel LNL-1320
Lenel OnGuard Software

Lenel Power Supply and Enclosure
HID iClass Proximity Readers

All cable, enclosures, modules, and Lenel integration software, including labor and programming, must be included with this project.

All new cable is to be plenum rated and supported following proper cable management standards, and not open to the public or laid on drop ceilings.

Products herein are based on the City of Pontiac standard and must be compatible for seamless integrations with Lenel Security Systems.

PONTIAC CITY HALL NEW INTRUSION DETECTION SYSTEM SPECIFICATIONS AND REQUIREMENTS

Intrusion Detection System Scope:

The City of Pontiac seeks qualified vendors to install a new intrusion detection system at the Pontiac City Hall that will provide perimeter coverage of all perimeter doors with magnetic door contacts. It is also required that motion sensor be placed in common hallways on the first and ground level floors for additional coverage. Also required for the new intrusion system are two (2) duress buttons at the Treasury, Treasury entrance doors are also to be contacted and a separate command keypad to control this area (separate area) on the intrusion system.

All field devices will connect to a commercial rated intrusion control panel, capable of up to 75 individually identified points that can be split into 8 areas. The intrusion control panel must be compatible for seamless integrations with Lenel Security Systems and Software.

- A. All new cable, patch cables and miscellaneous hardware must be included to provide the above scope.
- B. Initial product training to be included with the purchase of the system.

Products herein are based on the City of Pontiac standard and must be compatible for seamless integrations with Lenel Security Systems and Software.

Section 3 Products

Acceptable Intrusion System Manufacturers: Bosch

Acceptable Intrusion Detection Panel Equipment:

Bosch D7412GV4
Bosch D1255 VFD Keypad

Other manufacturers accepted: Lenel

All cable, enclosures, input modules cable, and Lenel integration software, including labor and programming, must be included with this project.

All field devices will be on individual zones in the system.

All new cable is to be plenum rated and supported following proper cable management standards, and not open to the public or laid on drop ceilings.

Products herein are based on the City of Pontiac standard and must be compatible for seamless integrations with Lenel Security Systems.

END OF SECTION

Oakland County Sheriff's Department

CURRENT CONFIGURATION-Oakland County Sheriff's Department - 110 E. Pike Street Pontiac, MI 48342

Existing Video System:

- A.(2) Pelco DVR's
- B.(2) Pelco Multiplexers
- C. (18) Interior Analog Cameras
- D.(4) Pelco Spectra Outdoor PTZ Cameras
- E. (2) Monitors
- F. Pelco Keyboard

OAKLAND COUNTY SHERIFF'S DEPARTMENT REPLACEMENT VIDEO SURVEILLANCE SYSTEM SPECIFICATIONS AND REQUIREMENTS

Oakland County Sheriff's Department Video Surveillance System Replacement Scope:

The existing Pelco video system will be replaced with a new Avigilon VMS platform with new Avigilon IP Megapixel cameras and Avigilon Server/NVR. All existing cameras will be replaced with new IP Cameras at the follow locations: (7) Vandal resistant dome cameras (4-lock-up, 1-lock-up hallway, 1- elevator, 1-lower level elevator by Sally Port). (3) indoor dome cameras (front desk, lobby desk, front hall. (1) 3MP Bullet Camera inside the garage, (1) 2MP Bullet camera mounted outside to view employee entrance and sally port door, (4) 4K Outdoor cameras viewing the perimeter area of the building (placement to be determined).

The existing DVR's, matrix and multiplexers will be replaced by a new Avigilon HD Network Video Recorder Server with Avigilon Control Center Enterprise Software. The new video head end will reside in an existing rack on the third floor of this building. A Video Client Workstation will also be installed at the Oakland County Sheriff's Department front dispatch desk with 2 viewing monitors.

- A. All new cable, patch cables and miscellaneous hardware must be included to provide the above scope.
- B. Initial product training is to be included with the purchase of the system.

New Products:

Acceptable Network Video Management Software (NVMS), Network Video Recording Hardware (NVR), Camera and Encoder Manufacturers:

Avigilon

Surveillance Equipment:

Servers, Workstations and Software

GENERAL

1.1 SUMMARY

- A. This Section specifies the minimum requirements for the City of Pontiac Security Systems Upgrade Project. This Security Video Surveillance System shall include but is not limited to the following:
 - 1. Network Video Management Software (NVMS)
 - 2. Network Video Recording Hardware (NVR)
 - 3. Network Switch
 - 4. IP Video Cameras
- B. Related Requirements:
 - 1. All related sections must be:
 - a. Able to function autonomously during a failure of one of the related sections
 - b. Able to communicate bi-directionally
 - c. Must be provided as a "turnkey" solution

1.2 ADMINISTRATIVE REQUIREMENTS

A. Coordination

- 1. Coordinate with owner regarding camera network configuration and estimated bandwidth utilization prior to connection of cameras to owner's network.

1.3 SUBMITTALS

Submittals described in this section shall be submitted by the Contractor with the original bid.

A. Product Data

- 1. Submit manufacturer technical specifications, typical installation drawings, system overview drawings and sample images of items included in this section.

B. Proposal Delta

- 1. It is the duty of the contractor to provide a working system. Any omissions or errors or differences between this document and the contractor's submitted proposal shall be clearly outlined in a separate document labeled "[*COMPANY NAME] Proposal Deltas".

B. Contractor

- 1. Submit confirmation that contractor is licensed to install video surveillance and security equipment.
- 2. Submit history of contractor certification(s) for items in this section.
- 3. Submit references with contact information where contractor has installed items in this section.
- 4. Submit confirmation that installer has received manufacturer training and is certified by the manufacturer on this equipment and that the training the installer received is current.

1.4 QUALITY ASSURANCE

A. Qualifications

1. Installers

- a. All camera installation, configuration, setup, program and related work shall be performed by authorized integrators/electronic technicians certified by the manufacturer.
- b. Certification for authorized integrators/electronic technicians shall include at a minimum the installation and service of the equipment provided.

1.5 WARRANTY

- A. Contractor shall provide any software maintenance patches and version updates or upgrades at no-additional cost to Owner for a period of at least one (1) year.
- B. Contractor will provide complete 1 year parts and labor warranty for the products provided in this project.

PART 2 PRODUCTS

2.1 NETWORK VIDEO MANAGEMENT SERVER(S)

This Network Video Management Server will be utilized for both the City Hall and The Oakland County Sheriff's Department Video Surveillance System mentioned earlier (Pontiac City Hall) in this document.

2.2 NETWORK VIDEO MANAGEMENT WORKSTATION(S)

This Network Video Management Workstation will utilize the same specifications for the Network Video Management Workstation mentioned earlier in this document (Pontiac City Hall, starting page 8).

2.3 MONITORS

These monitors will utilize the same specifications for the monitors mentioned earlier in this document (Pontiac City Hall, page 9).

2.4 NETWORK VIDEO MANAGEMENT SOFTWARE (NVMS)

This Network Video Management Software will be utilized for both the City Hall and The Oakland County Sheriff's Department Video Surveillance System mentioned earlier (Pontiac City Hall) in this document.

Enterprise Level Camera Licensing will be provided for all cameras as needed.

2.5 NETWORK IP CAMERAS

- A. Network IP cameras shall meet or exceed specifications and shall be of the type and location listed below:

(7) Vandal resistant 1MP dome cameras (4-lock-up, 1-lock-up hallway, 1- elevator, 1-lower level elevator by Sally Port). (3) indoor 1MP dome cameras (front desk, lobby desk, front hall. (1) 3MP Bullet Camera inside the garage, (1) 2MP Bullet camera mounted outside to view employee

entrance and sally port door, (4) 4K Outdoor cameras viewing the perimeter area of the building (placement to be determined).

- B. Other Manufacturers accepted
 - 1. Axis
 - 2. Bosch
 - 3. Pre-approved equivalent
- C. New cameras added into the system as part of this project will require plenum rated Cat6 cable needed to provide full camera functionality. This cable is to be supported following proper cable management standards and not open to the public or laid on drop ceilings.

All Cameras to be Avigilon H4A type, or approved equal.

1.1. WARRANTY

A. Manufacturer Warranty

- 1. All equipment provided shall be backed by a minimum manufacturer parts warranty.

B. Contractor Warranty

- 1. Contractor will provide complete 1 year parts and labor warranty for the products provided in this project.

New Cameras added into the system as part of this project will require plenum rated Cat6 cable needed to provide full camera functionality. This cable is to be supported following proper cable management standards, and not open to the public or laid on drop ceilings.

END OF SECTION

CITY OF PONTIAC PROPOSAL FORM

We the undersigned as bidder propose to furnish to the City of Pontiac, per the conditions and instructions attached hereto and made a part thereof a complete package submittal per the requirements, including terms and conditions.

Location #	DESCRIPTION	TOTAL PRICE
Pontiac City Hall	Pontiac City Hall Video Upgrade	
Pontiac City Hall	Pontiac City Hall Access Control	
Pontiac City Hall	Pontiac City Hall Intrusion Detection System	
Oakland County Sheriff	Oakland County Sheriff Video Upgrade	
Training	(Quantity 3) - Four (4) Hour Training Sessions on Proposed Systems	
	12 Hours Total	

BASE BID

LUMP SUM \$ _____

1 year warranty included?

Yes No

Optional Full Coverage Service Contract

Year 2

_____ annually

Year 3

_____ annually

Alternate – Mobile Remote Camera Kit (page xx)

Remote Camera\$ _____

Is quote complete with all requirements?

Yes No

Are the quoted items according to specifications?

Yes No

If not, please explain the exceptions:

Additional Comments:

CITY OF PONTIAC - BID PROPOSAL

I, the undersigned, propose to provide equipment proposed in this contract as per specifications supplied by the City of Pontiac. No contract is active until a purchase order is issued to the successful bidder.

I further propose to deliver the above-described service(s) and/or item(s) for the City of Pontiac in first class operating manner in accordance with all specifications contained herein subject to purchaser's inspection of equipment purchased and services performed.

I attest that the bid includes all information necessary for the City of Pontiac to accept bid.

Company Name: _____

Address: _____

Representative Signature: _____

Print Name: _____

Title: _____

Office # _____ Cell # _____

FAX # _____

FEDERAL TAX I.D. NUMBER: _____

Date signed _____

Related Project Experience:

Provide descriptions of current and completed projects your firm has performed that are similar to this project in size, scope and complexity. Information for these projects, limited to the last five (5) years:

1) Project Title: _____

Project Location: _____

Client's name: _____

Contact name, title, and telephone number: _____

2) Project Title: _____

Project Location: _____

Client's name: _____

Contact name, title, and telephone number: _____

3) Project Title: _____

Project Location: _____

Client's name: _____

Contact name, title, and telephone number: _____

Please make additional copies of this sheet or include a separate list with the bid proposal.

SAMPLE CONTRACT FOR [TYPE OF SERVICE]

- 1) Parties. The parties to this contract are the City of Pontiac, Michigan hereinafter referred to as the "City", and [NAME OF CONTRACTOR] hereinafter called the "Contractor".
- 2) Purpose. The purpose of this contract is for the City to engage the Contractor to provide [TYPE OF SERVICE] to the City (see Scope of Services below).
- 3) Scope of Services. The Contractor will provide all labor, materials, supplies, equipment and supervision to perform [TYPE OF SERVICE] in the City. The Contractor is to perform all work in accordance with generally accepted standards and practices.
- 4) General Terms and Conditions. This contract is hereby made subject to the terms and conditions included in the Scope of Services (see Exhibit "A" below) and Additional Terms and Conditions (see Exhibit "B" below).
- 5) Consideration. As consideration for the performance of the services referenced in the Scope of Services (see Exhibits "A" & "B" below), the City agrees to compensate the Contractor as follows:

[INSERT PAYMENT TERMS PER CONTRACT]

- 6) Period of Performance. This contract will become effective for the period beginning [TIME PERIOD], with [ANY RENEWAL OPTIONS] upon the approval and signature of the parties hereto.
- 7) Method of Payment. Contractor will be paid 30 days after completion of work as outlined in the Scope of Services after submission of a valid invoice.
- 8) Applicable Law. This contract shall be governed by and construed in accordance with the laws of the City of Pontiac, State of Michigan and applicable federal laws.
- 9) Compliance with Laws. The Contractor understands that the City is an equal opportunity employer and, therefore, maintains a policy which prohibits unlawful discrimination based on race, color, creed, sex, age, national origin, physical handicap, disability, genetic information, or any other consideration made unlawful by federal, state, or local laws. All such discrimination is unlawful and the Contractor agrees during the term of the agreement that the Contractor will strictly adhere to this policy in its employment practices and provision of services. The Contractor shall comply with, and all activities under this agreement shall be subject to, all applicable federal, State of Michigan, and City of Pontiac laws and regulations, as now existing and as may be amended or modified.

The Contractor is responsible for instructing and training their employees in appropriate safety measures. Employees will be responsible for maintaining a safe work environment while completing their tasks.

- a) The Contractor shall comply with the Michigan Right to Know Law (Amendments to Act 154), which requires that all employers within the State comply with federal Hazard Communications Standards (C.F.R. 1910.1200) and certain additional guidelines as of February 25, 1987. These Standards specify that employers develop a written hazard communication program, which is to be made available for workers or their designated representatives.
- b) The Contractor will comply with all federal, state and local regulations, including but not limited to all applicable OSHA/MIOSHA requirements and the Americans with Disabilities Act
- c) The Contractor is responsible for all applicable state and federal social security benefits and unemployment taxes and agrees to indemnify and protect the City against such liability.

10) Requirements contract. During the period of the contract, the Contractor shall provide all the services described in the contract. The Contractor understands and agrees that this is a requirements contract and that the City shall have no obligation to the Contractor if no services are required.

EXHIBIT "A"

SCOPE OF SERVICES

The Contractor shall provide [TYPE OF SERVICE].

Except as otherwise provided herein, Contractor shall furnish all labor, supervision and services necessary to properly execute and complete the work.

[INSERT SPECIFICS OF RFP HERE]

EXHIBIT "B"

ADDITIONAL TERMS AND CONDITIONS

- 1) Attorneys' fees and expenses. Subject to other terms and conditions of this contract, in the event the Contractor defaults in any obligation under this contract, the Contractor shall pay to the City all costs and expenses (including, without limitation, investigative fees, court costs, and attorneys' fees) incurred by the City in enforcing this contract or otherwise reasonably related thereto. Contractor agrees that under no circumstances shall the City be obligated to pay any attorneys' fees or costs of legal action to the Contractor.
- 2) Authority to contract. The Contractor warrants: (a) that it is a validly organized business with valid authority to enter into this contract; (b) that it is qualified to do business and in good standing in the State of Michigan; (c) that entry into and performance under this contract is not restricted or prohibited by any loan, security, financing, contractual, or other contract of any kind; and, (d) notwithstanding any other provision of this contract to the contrary, that there are no existing legal proceedings or prospective legal proceedings, either voluntary or otherwise, which may adversely affect its ability to perform its obligations under this contract.
- 3) Confidential information. Disclosure of any confidential information by the Contractor or its subcontractor without the express written approval of the City shall result in the immediate termination of this contract.
- 4) Confidentiality. Notwithstanding any provision to the contrary contained herein, it is recognized that the City of Pontiac is a public City of the State of Michigan and is subject to the laws regarding confidentiality. If a public records request is made for any information provided to the City pursuant to the contract, the City shall promptly notify the disclosing party of such request and will respond to the request only in accordance with the procedures and limitations set forth in applicable law. The disclosing party shall promptly institute appropriate legal proceedings to protect its information. No party to the contract shall be liable to the other party for disclosures of information required by court order or required by law.
- 5) Contractor personnel. The City shall, throughout the life of the contract, have the right of reasonable rejection and approval of staff or subcontractors assigned to the work by the Contractor. If the City reasonably rejects staff or subcontractors, the Contractor shall provide replacement staff or subcontractors satisfactory to the City in a timely manner and at no additional cost to the City. The day-to-day supervision and control of the Contractor's employees and subcontractors is the sole responsibility of the Contractor. Contractor personnel are subject to background checks by the Oakland County Sheriff Department and shall comply with all requirements as outlined in the Request for Quote.

- 6) Insurance. The Contractor shall not commence work under this contract until it has obtained the required insurance under this paragraph. All coverage shall be with insurance companies licensed and admitted to do business in the State of Michigan. All coverage shall be with carriers acceptable to the City of Pontiac:
- a) Workers' Compensation Insurance. The Contractor shall procure and maintain during the life of this contract, Workers' Insurance, including Employers Liability Coverage, in accordance with all applicable statutes of the State of Michigan with a minimum limit of \$100,000 each accident for any employee.
 - b) Commercial General Liability Insurance. The Contractor shall procure and maintain during the life of this contract, Commercial General Liability Insurance on an "Occurrence Basis" with limits of liability not less than \$1,000,000 per occurrence and/or aggregate combined single limit. Personal Injury, Bodily Injury and Property Damage, coverage shall include the following extensions: (A) Contractual Liability; (B) Products and Completed Operations; (C) Independent Contractors Coverage; (D) Broad Form General Liability Extensions or equivalent; (E) Deletion of all Explosion, Collapse and Underground (XCU) Exclusions, if applicable; (F) Per project aggregate.
 - c) Additional Insured: Commercial General Liability and Motor Vehicle Liability Insurance, as described above, shall include an endorsement stating the following shall be Additionally Insured: The City of Pontiac, all elected and appointed officials, all employees and volunteers, all boards, commissions, and/or authorities and board members, including employees and volunteers. It is understood and agreed by naming the City of Pontiac as additional insured, coverage afforded is considered to be primary and any other insurance the City of Pontiac may have in effect shall be considered secondary and/or excess.
 - d) Cancellation Notice: All policies described above shall include an endorsement stating the following: "It is understood and agreed that Thirty (30) days Advance Written Notice of Cancellation, Non-Renewal, Reduction and/or Material Change shall be sent to City Administrator for the City of Pontiac.
 - e) Proof of Insurance Coverage: The Contractor shall provide the City of Pontiac, at the time the contracts are returned for execution, certificates for all coverage listed above.
 - f) Expiration of Policies: If any of the above coverage lapses during term of this contract, the Contractor shall deliver renewal certificates and/or policies to the City of Pontiac at least ten (10) days prior to the expiration date.
 - g) Indemnification: To the extent permitted by law, the towing Contractor shall indemnify and hold the City harmless of and from all claims, losses, liability,

demands, costs, loss of service, expense, and compensation on account of or in any way growing out of any damage, including, but not limited to, bodily injury or property damage which may result from the towing Contractor's towing services, In addition, the towing Contractor shall cover all costs incurred by the City in defense of any litigation covered under this letter of contract, including attorney fees and court costs.

- h) Insurance companies, named insureds and policy forms shall be subject to the approval of the Pontiac Department of Public Works. Such approval shall not be unreasonably withheld. Insurance policies shall not contain endorsements or policy conditions, which reduce coverage provided to the City of Pontiac. Contractor shall be responsible to the City of Pontiac or insurance companies insuring the City of Pontiac for all costs resulting from both financially unsound insurance companies selected by Contractor and their inadequate insurance coverage. Contractor shall furnish the Pontiac Finance Department with satisfactory certificates of insurance or a certified copy of the policy, if requested by the Finance Department.
- i) No payments will be made to the Contractor until the current certificates of insurance have been received and approved by the Finance Department. If the insurance as evidenced by the certificates furnished by the Contractor expires or is canceled during the term of the contract, services and related payments will be suspended. Contractor shall furnish the Finance Department with certification of insurance evidencing such coverage and endorsements at least ten (10) working days prior to commencement of services under this contract. Certificates shall be addressed to the Pontiac Finance Department, and shall provide for 30 day written notice to the Certificate holder of cancellation of coverage.
- 7) Ineligibility and suspension. The Contractor certifies to the best of its knowledge and belief, that it: (a) is not presently ineligible, suspended, proposed for ineligibility, declared ineligible, or voluntarily excluded from covered transaction by any federal department or the City or any political subdivision of the City or the State of Michigan; (b) has not, within a three year period preceding this proposal, been convicted of or had civil judgment rendered against it for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction; (c) has not, within a three year period preceding this proposal, been convicted of or had civil judgment rendered against it for a violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property; (d) is not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any of these offenses enumerated in paragraphs (b) and (c) of this certification; and, (e) has not, within a three year period preceding this proposal, had one or more public transactions (federal, state, or local) terminated for cause or default.

- 8) Disclosure of confidential information. In the event that either party to this contract receives notice that a third party requests divulgence of confidential or otherwise protected information and/or has served upon it subpoena or other validly issued administrative or judicial process ordering divulgence of confidential or otherwise protected information that party shall promptly inform the other party and thereafter respond in conformity with such subpoena to the extent mandated by law. This section shall survive the termination or completion of this contract.
- 9) Exceptions to confidential information. The Contractor and the City shall not be obligated to treat as confidential and proprietary any information disclosed by the other party ("disclosing party") which: (a) is rightfully known to the recipient prior to negotiations leading to this contract, other than information obtained in confidence under prior engagements; (b) is generally known or easily ascertainable by nonparties of ordinary skill in the business of the customer; (c) is released by the disclosing party to any other person, firm, or entity (including governmental agencies or bureaus) without restriction; (d) is independently developed by the recipient without any reliance on confidential information; (e) is or later becomes part of the public domain or may be lawfully obtained by the City or the Contractor from any nonparty; or, (f) is disclosed with the disclosing party's prior written consent.
- 10) Default. If the Contractor:
- a) Fails to supply complete labor and supervision in sufficient time and quantity to meet the City's progress schedule, as it may be modified;
 - b) Causes stoppage or delay of, or interference with, the project;
 - c) Fails to promptly pay its employees for work on the project;
 - d) Fails to pay worker's compensation or other employee benefits, withholding or any other taxes;
 - e) Fails to comply with the safety provisions of the Contract or with any safety order, regulation or requirement of any governing authority having jurisdiction over this project;
 - f) Makes unauthorized changes in supervisory personnel;
 - g) Fails in performance or observance of any of the provisions of the contract;
 - h) Files a voluntary petition in bankruptcy or is adjudicated insolvent;
 - i) Obtains an order for relief under Section 301 of the Bankruptcy Code;

- j) Files any petition or fails to contest any petition filed seeking any reorganization or similar relief under any laws relating to bankruptcy, insolvency or other relief of debtors;
- k) Or seeks or consents to or is acquiescent in the appointment of a trustee, receiver or liquidator of any of its assets or property;
- l) Makes an assignment for the benefit of creditors; or
- m) Makes an admission, in writing, of its inability to pay its debts as they became due;

Then City, after giving Contractor written or oral (subsequently confirmed in writing) notice of such default and forty-eight (48) hours within which to cure such default, shall have the right to exercise any one or more of the following remedies:

- a) Require that Contractor utilize, at its own expense, additional labor, overtime labor (including Saturday and Sunday work) and additional shifts as necessary to overcome the consequences of any delay attributable to Contractor's default.
- b) Remedy the default by whatever means City may deem necessary or appropriate, including, but not limited to, correcting, furnishing, performing or otherwise completing the work, or any part thereof, by itself or through others (utilizing where appropriate any materials and equipment previously purchased for that purpose by Contractor) and deducting the cost thereof from any monies due or to become due to Contractor hereunder;
 - i) After giving Contractor an additional forty-eight (48) hours written (or oral, subsequently confirmed in writing) notice, terminate this Contract, without thereby waiving or releasing any rights or remedies against Contractor or its sureties, and, by itself or through others, take possession of the work, and all materials, equipment facilities, tools, scaffolds and appliances of Contractor relating to the work, for the purposes of costs and other damages under the contract and for the breach thereof; and
 - ii) Recover all reasonable attorneys' fees suffered or incurred by City by reason of, or as a result of, Contractor's default.

11) Failure to enforce. Failure by the City at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the City to enforce any provision at any time in accordance with its terms.

- 12) Final payment. Upon satisfactory completion of the work performed under this contract, as a condition before final payment under this contract, or as a termination settlement under this contract, the Contractor shall execute and deliver to the City a release of all claims against the City arising under, or by virtue of, the contract, except claims which are specifically exempted by the Contractor to be set forth therein. Unless otherwise provided in this contract, by state law, or otherwise expressly agreed to by the parties in this contract, final payment under the contract or settlement upon termination of this contract shall not constitute waiver of the City's claims against the Contractor under this contract.
- 13) Force majeure. Each party shall be excused from performance for any period and to the extent that it is prevented from performing any obligation or service, in whole or in part, as a result of causes beyond the reasonable control and without the fault or negligence of such party and/or its subcontractors. Such acts shall include without limitation acts of God, strikes, lockouts, riots, and acts of war, epidemics, governmental regulations superimposed after the fact, fire, earthquakes, floods, or other natural disasters (the "force majeure events"). When such a cause arises, the Contractor shall notify the City immediately in writing of the cause of its inability to perform, how it affects its performance, and the anticipated duration of the inability to perform. Delays in delivery or in meeting completion dates due to force majeure events shall automatically extend such dates for a period equal to the duration of the delay caused by such events, unless the City determines it to be in its best interest to terminate the contract.
- 14) Indemnification. To the fullest extent allowed by law, the Contractor shall indemnify, defend, save and hold harmless, protect, and exonerate the City, its commissioners, board members, officers, employees, agents, representatives, and the State of Michigan from and against all claims, demands, liabilities, suits, actions, damages, losses, and costs of every kind and nature whatsoever including, without limitation, court costs, investigative fees and expenses, and attorneys' fees, arising out of or caused by the Contractor and/or its partners, principals, agents, employees and/or subcontractors in the performance of or failure to perform this contract. In the City's sole discretion, the Contractor may be allowed to control the defense of any such claim, suit, etc. In the event the Contractor defends said claim, suit, etc., the Contractor shall use legal counsel acceptable to the City. The Contractor shall be solely responsible for all costs and/or expenses associated with such defense, and the City shall be entitled to participate in said defense. The Contractor shall not settle any claim, suit, etc., without the City's concurrence, which the City shall not unreasonably withhold.
- 15) Independent contractor status. The Contractor shall, at all times, be regarded as and shall be legally considered an independent contractor and shall at no time act as an agent for the City. Nothing contained herein shall be deemed or construed by the City, the Contractor, or any third party as creating the relationship of principal and agent, master and servant, partners, joint ventures, employer and employee, or any similar such relationship between the City and the Contractor. Neither the method of

computation of fees or other charges, nor any other provision contained herein, nor any acts of the City or the Contractor hereunder creates, or shall be deemed to create, a relationship other than the independent relationship of the City and the Contractor. The Contractor's personnel shall not be deemed in any way, directly or indirectly, expressly or by implication, to be employees of the City or the State of Michigan. Neither the Contractor nor its employees shall, under any circumstances be considered servants, agents, or employees of the City and the City shall be at no time legally responsible for any negligence or other wrongdoing by the Contractor, its servants, agents, or employees. The City shall not withhold from the contract payments to the Contractor any federal or state unemployment taxes, federal or state income taxes, social security tax, or any other amounts for benefits to the Contractor. Further, the City shall not provide to the Contractor any insurance coverage or other benefits, including worker's compensation, normally provided by the City for its employees.

16) No limitation of liability. Nothing in this contract shall be interpreted as excluding or limiting any tort liability of the Contractor for harm caused by the intentional or reckless conduct of the Contractor or for damages incurred through the negligent performance of duties by the Contractor or the delivery of products that are defective due to negligent construction.

17) Notices. All notices required or permitted to be given under this contract shall be in writing and personally delivered or sent by certified United States mail, postage prepaid, return receipt requested, to the Pontiac City Clerk's Office to whom the notice should be given at the address set forth below. Notice shall be deemed given when actually received or when refused. The parties agree to promptly notify each other in writing of any change of address.

For the Contractor: [INSERT ADDRESS]

For the City: [INSERT ADDRESS AND DEPARTMENT]

18) Oral statements. No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this contract. All modifications to the contract shall be made in writing by the City and agreed to by the Contractor.

19) Ownership of documents and work papers. The City shall own all documents, files, reports, work papers and working documentation, electronic or otherwise, created in connection with the project which is the subject of this contract, except for the Contractor's internal administrative and quality assurance files and internal project correspondence. The Contractor shall deliver such documents and work papers to the City upon termination or completion of the contract. The foregoing notwithstanding, the Contractor shall be entitled to retain a set of such work papers for its files. The Contractor shall be entitled to use such work papers only after receiving written permission from the City and subject to any copyright protections.

- 20) Priority. The contract consists of this contract with exhibits. Any ambiguities, conflicts or questions of interpretation of this contract shall be resolved by first, reference to this contract with exhibits and, if still unresolved, by reference to the bid. Omission of any term or obligation from this contract shall not be deemed an omission from this contract if such term or obligation is provided for elsewhere in this contract.
- 21) Quality control. The Contractor shall institute and maintain throughout the contract period a properly documented quality control program designed to ensure that the services are provided at all times and in all respects in accordance with the contract. The program shall include providing daily supervision and conducting frequent inspections of the Contractor's staff and ensuring that accurate records are maintained describing the disposition of all complaints. The records so created shall be open to inspection by the City.
- 22) Record retention and access to records. Provided the Contractor is given reasonable advance written notice and such inspection is made during normal business hours of the Contractor, the City or any duly authorized representatives shall have unimpeded, prompt access to any of the Contractor's books, documents, papers, and/or records which are maintained or produced as a result of the project for the purpose of making audits, examinations, excerpts, and transcriptions. All records related to this contract shall be retained by the Contractor for three years after final payment is made under this contract and all pending matters are closed; however, if any audit, litigation or other action arising out of or related in any way to this project is commenced before the end of the three year period, the records shall be retained for one year after all issues arising out of the action are finally resolved or until the end of the three year period, whichever is later.
- 23) Recovery of money. Whenever, under the contract, any sum of money shall be recoverable from or payable by the Contractor to the City, the same amount may be deducted from any sum due to the Contractor under the contract or under any other contract between the Contractor and the City. The rights of the City are in addition and without prejudice to any other right the City may have to claim the amount of any loss or damage suffered by the City on account of the acts or omissions of the Contractor.
- 24) Right to audit. The Contractor shall maintain such financial records and other records as may be prescribed by the City or by applicable federal and state laws, rules, and regulations. The Contractor shall retain these records for a period of three years after final payment, or until they are audited by the City, whichever event occurs first. These records shall be made available during the term of the contract and the subsequent three-year period for examination, transcription, and audit by the Michigan Office of the State Auditor, its designees, or other authorized bodies.

- 25) Right to inspect facility. The City may, at reasonable times, inspect the place of business of the Contractor or any subcontractor, which is related to the performance of any contract awarded by the City.
- 26) Severability. If any part of this contract is declared to be invalid or unenforceable, such invalidity or unenforceability shall not affect any other provision of the contract that can be given effect without the invalid or unenforceable provision, and to this end the provisions hereof are severable. In such event, the parties shall amend the contract as necessary to reflect the original intent of the parties and to bring any invalid or unenforceable provisions in compliance with applicable law.
- 27) City property. The Contractor will be responsible for the proper custody and care of any City-owned property furnished for the Contractor's use in connection with the performance of this contract. The Contractor will reimburse the City for any loss or damage, normal wear and tear excepted.
- 28) Termination for convenience clause.
- a) The City reserves the absolute right to terminate the contract in whole or in part, for the convenience of the City at its sole discretion on thirty (30) days written notice to the Contractor. The City has the right, upon its sole discretion only, to terminate the contract with cause by giving notice to the Contractor of such termination, specifying the effective date thereof, at least fourteen (14) days before the effective date of such termination, and the Contract shall terminate in all respects as if such date were the date originally given for the expiration of the Contract.
 - b) The Contractor shall be liable to the City for damages sustained by the City by virtue of any breach of the Contract by the Contractor, and any costs the City might incur enforcing or attempting to enforce the Contract, and the City may pursue legal remedies in the collection of fees to compensate for the damages sustained by the City.
 - c) Contractor's Obligations. The Contractor shall incur no further obligations in connection with the terminated work and on the date set in the notice of termination the Contractor will stop work to the extent specified. The Contractor shall also terminate outstanding orders and subcontracts as they relate to the terminated work. The Contractor shall settle the liabilities and claims arising out of the termination of subcontracts and orders connected with the terminated work. The City may direct the Contractor to assign the Contractor's right, title, and interest under terminated orders or subcontracts to the State of Michigan. The Contractor shall still complete the work not terminated by the notice of termination and may incur obligations as are necessary to do so.

29) Termination for default clause.

- a) Default. If the Contractor refuses or fails to perform any of the provisions of this contract with such diligence as will ensure its completion within the time specified in this contract or any extension thereof, or otherwise fails to timely satisfy the contract provisions, or commits any other substantial breach of this contract, the City may notify the Contractor in writing of the delay or nonperformance and if not cured in ten days or any longer time specified in writing by the City, the City may terminate the Contractor's right to proceed with the contract or such part of the contract as to which there has been delay or a failure to properly perform. In the event of termination in whole or in part, the City may procure similar supplies or services in a manner and upon terms deemed appropriate by the City. The Contractor shall continue performance of the contract to the extent it is not terminated and shall be liable for excess costs incurred in procuring similar goods or services.
- b) Contractor's Duties. Notwithstanding termination of the contract and subject to any directions from the City, the Contractor shall take timely, reasonable, and necessary action to protect and preserve property in the possession of the Contractor in which the City has an interest.
- c) Compensation. Payment for completed services delivered and accepted by the City shall be at the contract price. The City may withhold from amounts due the Contractor such sums as the City deems to be necessary to protect the City against loss because of outstanding liens or claims of former lien holders and to reimburse the City for the excess costs incurred in procuring similar goods and services.
- d) Excuse for Nonperformance or Delayed Performance. Except with respect to defaults of subcontractors, the Contractor shall not be in default by reason of any failure in performance of this contract in accordance with its terms (including any failure by the Contractor to make progress in the prosecution of the work hereunder which endangers such performance) if the Contractor has notified the City within 15 days after the cause of the delay and the failure arises out of causes such as: acts of God; acts of the public enemy; acts of the State of Michigan and any other governmental entity in its sovereign or contractual capacity; fires; floods; epidemics; quarantine restrictions; strikes or other labor disputes; freight embargoes; or unusually severe weather. If the failure to perform caused by the failure of a subcontractor to perform or to make progress, and if such failure arises out of causes similar to those set forth above, the Contractor shall not be deemed to be in default, unless the services to be furnished by the subcontractor were reasonably obtainable from other sources in sufficient time to permit the Contractor to meet the contract requirements. Upon request of the Contractor, the City shall ascertain the facts and extent of such failure, and, if such officer determines that any failure to perform was occasioned by any one or more of the excusable causes, and that, but

for the excusable cause, the Contractor's progress and performance would have met the terms of the contract, the delivery schedule shall be revised accordingly, subject to the rights of the City under the clause entitled "Termination for Convenience." (As used in this paragraph, the term "subcontractor" means subcontractor at any tier).

- e) **Erroneous Termination for Default.** If, after notice of termination of the Contractor's right to proceed under the provisions of this clause, it is determined for any reason that the contract was not in default under the provisions of this clause, or that the delay was excusable under the provisions of Paragraph (d) (Excuse for Nonperformance or Delayed Performance) of this clause, the rights and obligations of the parties shall, if the contract contains a clause providing for termination for convenience by the City, be the same as if the notice of termination had been issued pursuant to such clause.
- f) **Additional Rights and Remedies.** The rights and remedies provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

30) **Termination upon bankruptcy.** This contract may be terminated in whole or in part by the City upon written notice to the Contractor, if the Contractor should become the subject of bankruptcy or receivership proceedings, whether voluntary or involuntary, or upon the execution by the Contractor of an assignment for the benefit of its creditors. In the event of such termination, the Contractor shall be entitled to recover just and equitable compensation for satisfactory work performed under this contract, but in no case shall said compensation exceed the total contract price.

31) **Third party action notification.** The Contractor shall give the City prompt notice in writing of any action or suit filed, and prompt notice of any claim made against the Contractor by any entity that may result in litigation related in any way to this contract.

32) **Unsatisfactory work.** If, at any time during the contract term, the service performed or work done by the Contractor is considered by the City to create a condition that threatens the health, safety, or welfare of the citizens and/or employees of the City of Pontiac, the Contractor shall, on being notified by the City, immediately correct such deficient service or work. In the event the Contractor fails, after notice, to correct the deficient service or work immediately, the City shall have the right to order the correction of the deficiency by separate contract or with its own resources at the expense of the Contractor.

33) **Waiver.** No delay or omission by either party to this contract in exercising any right, power, or remedy hereunder or otherwise afforded by contract, at law, or in equity shall constitute an acquiescence therein, impair any other right, power or remedy hereunder or otherwise afforded by any means, or operate as a waiver of such right, power, or remedy. No waiver by either party to this contract shall be valid unless set forth in writing by the party making said waiver. No waiver of or modification to any term or

condition of this contract will void, waive, or change any other term or condition. No waiver by one party to this contract of a default by the other party will imply, be construed as, or require waiver of future or other defaults.

34) Taxes and Contributions. The Contractor hereby accepts and assumes exclusive liability for and shall indemnify, protect and save harmless the City from and against the payment of:

- a) Contractor agrees to contact the City of Pontiac Income Tax Division, Audit and Compliance Section, 47450 Woodward, Pontiac, Michigan 48342, to establish reporting and withholding obligations under the City of Pontiac Income Tax Ordinance. Contractors will require the same of all subcontractors employed to perform any work in the City of Pontiac.
- b) All contributions, taxes or premiums (including interest and penalties thereon) which may be payable under the Unemployment Insurance Law of any State, the Federal Social Security Act, Federal, State, County and/or Municipal Tax Withholding Act, Federal, State, County and/or Municipal Tax Withholding Laws, or any other law, measured upon the payroll of or required to be withheld from employees by whomsoever employed or engaged in the work to be performed and furnished under this contract.
- c) All sales, use, personal property and other taxes (including interest and penalties thereon) required by any Federal, State, County, Municipal or other law to be paid or collected by the Contractor or any of its vendors or any other person or persons acting for, through or under it or any of them, by reason of the performance of this work or the acquisition, furnishing, or use of any materials, equipment, supplies, labor, services or other items for or in connection with the work.
- d) All pension, welfare, vacation, annuity and other union benefit contributions payable, under or in connection with respect, to all persons; by whomsoever employed or engaged in the work to be performed and furnished under this Contract.

35) Bonds. The Contractor is required to execute bonds, with sureties acceptable to the City, as identified in the specifications, all of which are incorporated into this agreement.

In witness whereof, the parties hereto have affixed, on duplicate originals, their signatures on the date indicated below, after first being authorized so to do.

[Contractor]

DATE

Sign: _____

Print: _____

Title: _____

City of Pontiac

DATE

Sign: _____

Print: _____

Title: _____