



cityofnovi.org

# CITY of NOVI CITY COUNCIL

**Agenda Item G**  
**October 6, 2008**

**SUBJECT:** Approval of additional payment to Cadillac Asphalt in the amount of \$18,000 for the 2007-2008 asphalt paving program.

**SUBMITTING DEPARTMENT:** DPW

**CITY MANAGER APPROVAL** 

<b>EXPENDITURE REQUIRED</b>	<b>\$18,000</b>
<b>AMOUNT BUDGETED</b>	<b>Included in Routine Maintenance</b>
<b>APPROPRIATION REQUIRED</b>	
<b>LINE ITEM NUMBER</b>	<b>202-202.00-866.000 Major Street Fund 203-203.00-866.000 Local Street Fund*</b>

**BACKGROUND INFORMATION:**

Areas not scheduled in the CIP were beyond repair and could not wait 3 years for reconstruction. The surface conditions were such that pothole repairs were not preventing further deterioration of the road.

Cadillac Asphalt (located in Wixom) has been our paving supplier for the past several years due to their product price and proximity to Novi. The other two vendors that we obtained quotes from, Ajax (Troy), and Barrett (Romulus), are located beyond a distance for our trucks to maintain the 325 degree temperature necessary for asphalt to bind to adjoining surfaces.

<b>Contractor</b>	<b>Price Per Ton</b>
Cadillac	\$ 45.00
Ajax	\$ 45.75
Barrett	\$ 59.50

<b>Street</b>	<b>Linear Feet</b>	<b>Tons of Asphalt</b>	<b>Cost</b>
Catherine Industrial Drive	750	262.50	\$ 11,812.50
Meadowbrook Road (north of Village Lake)	500	88.9	\$4,000.00
*Police Department Driveway	385	89.8	\$4,042.50

Asphalt paving is an on-going program similar to our in-house chip seal program; both of these programs are budgeted under the Routine Maintenance/Municipal Street Fund and Major/Local Street funds.

**RECOMMENDED ACTION:** Approval of additional payment to Cadillac Asphalt in the amount of \$18,000 for the 2007-2008 asphalt paving program.

	1	2	Y	N
<b>Mayor Landry</b>				
<b>Mayor Pro Tem Capello</b>				
<b>Council Member Crawford</b>				
<b>Council Member Gatt</b>				

	1	2	Y	N
<b>Council Member Margolis</b>				
<b>Council Member Mutch</b>				
<b>Council Member Staudt</b>				

# Cadillac Asphalt L.L.C

## 2008 Contractors Hot Mix Prices

Effective  
June 16, 2008

**Main Office:**  
2575 Haggerty Road  
Canton, MI 48188  
(734) 397-2050

**Plant Locations:**

**Wixom**  
51777 W. 12 Mile Rd.  
Wixom, MI 48906  
(248) 449-5580

**Dix**  
670 South Dix Ave  
Detroit, MI, 48217  
(313) 586-8977

**Rawsonville**  
1785 Rawsonville Rd  
Belleville, MI 48111  
(734) 485-1717

**Clarkston**  
4751 White Lk Rd  
Clarkston, MI 48346  
(248) 625-5891

**Whitmore Lk**  
11620 Whitmore Lk Rd  
Whitmore Lk, MI 48189  
(734) 449-2013

	Wixom	Dix	Rawsonville	Clarkston	Whitmore Lk
<u>Specialty Materials</u>	U.S TONS	U.S TONS	U.S TONS	U.S TONS	U.S TONS
Commercial High Stability Top	\$ 45.00	\$ 45.50	\$ 45.00	\$ 45.00	\$ 45.00
Commercial High Stability Base	\$ 39.00	\$ 39.50	\$ 39.00	\$ 39.00	\$ 39.00
*Tennis Court Mix	\$ 65.00	\$ 65.50	\$ 65.00	\$ 65.00	\$ 65.00

<u>Governmental Materials</u>					
1100-20AA Wearing	\$ 44.00	\$ 44.50	\$ 44.00	\$ 44.00	\$ 44.00
1100-20AA Leveling	\$ 44.00	\$ 44.50	\$ 44.00	\$ 44.00	\$ 44.00
1100-36A Wearing	\$ 50.00	\$ 50.50	\$ 50.00	\$ 50.00	\$ 50.00
1300/1500-20AAA Wearing	\$ 46.00	\$ 46.50	\$ 46.00	\$ 46.00	\$ 46.00
1300/1500-20AAA Leveling	\$ 46.00	\$ 46.50	\$ 46.00	\$ 46.00	\$ 46.00
500/700 Base Course	\$ 39.00	\$ 39.50	\$ 39.00	\$ 39.00	\$ 39.00
2 B & C	\$ 48.00	\$ 48.50	\$ 48.00	\$ 48.00	\$ 48.00
3 B & C	\$ 48.00	\$ 48.50	\$ 48.00	\$ 48.00	\$ 48.00
4 B & C	\$ 51.00	\$ 51.50	\$ 51.00	\$ 51.00	\$ 51.00
13A	\$ 45.00	\$ 45.50	\$ 45.00	\$ 45.00	\$ 45.00
11A	\$ 45.00	\$ 45.50	\$ 45.00	\$ 45.00	\$ 45.00

<u>Tack (SS1H)</u>					
Bulk by the gallon ( 50 gallon minimum)	\$ 7.00	n/a	\$ 7.00	\$ 7.00	\$ 7.00
5 Gallon Pail	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00

<u>Wayne County Materials</u>					
WC Base course	\$ 49.00	\$ 49.50	\$ 49.00	n/a	\$ 49.00
WC Binder	\$ 52.00	\$ 52.50	\$ 52.00	n/a	\$ 52.00
WC Leveling	\$ 49.00	\$ 49.50	\$ 49.00	n/a	\$ 49.00
WC Wearing Fine	\$ 65.00	\$ 65.50	\$ 65.00	n/a	\$ 65.00

<u>Oakland County Materials</u>					
RCOC 1100 L	\$ 49.00	n/a	n/a	\$ 49.00	\$ 49.00
RCOC 1100 T	\$ 49.00	n/a	n/a	\$ 49.00	\$ 49.00
RCOC 1300 T VIRGIN	\$ 60.00	n/a	n/a	\$ 60.00	\$ 60.00
RCOC 2C	\$ 50.00	n/a	n/a	\$ 50.00	\$ 50.00
RCOC 3C	\$ 50.00	n/a	n/a	\$ 50.00	\$ 50.00
RCOC 4C	\$ 55.00	n/a	n/a	\$ 55.00	\$ 55.00
RCOC 4C VIRGIN	\$ 60.00	n/a	n/a	\$ 60.00	\$ 60.00
RCOC 11A	\$ 50.00	n/a	n/a	\$ 50.00	\$ 50.00
RCOC 20C BASE	\$ 45.00	n/a	n/a	\$ 45.00	\$ 45.00

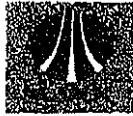
\*Call for pricing on all MDOT bids and specification tested mixes

\*P.G Binder Grades used in above mixes are 64-22 and 58-22

\*Must call for availability

Prices are subject to change without notice

July 21, 2008



AJAX MATERIALS CORPORATION

830 Kirts Blvd., Suite 100, Troy, MI 48064

(248) 244-3355 phone (248) 244-0800 fax

City of Novi DPW  
45175 West 10 Mile Road  
Novi, MI 48375

## HOT MIX ASPHALT PRICES FOR 2008

	PLANT 1 NEW HAVEN	PLANT 2 BALD MT.	PLANT 3 CROOKS RD.	PLANT 5 ROMULUS	PLANT 6 BRIGHTON	PLANT 7 SHERWOOD
<b>Commercial Wearing</b>	\$45.75	\$45.75	\$45.75	\$45.75	\$45.75	\$45.75
1100T, 20AA	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00
1300T/1500T Virgin	\$58.00	\$58.00	\$58.00	\$58.00	\$58.00	\$58.00
1300T/1500T, 20AAA	\$46.00	\$46.00	\$46.00	\$46.00	\$46.00	\$46.00
36A Wearing	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00
1100L 20AA	\$44.00	\$44.00	\$44.00	\$44.00	\$44.00	\$44.00
1300L/1500L, 20AAA	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00
500 / 700 20C Base	\$42.00	\$42.00	\$42.00	\$42.00	\$42.00	\$42.00
Mix 11A	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00
Mix 13A	\$49.00	\$49.00	\$49.00	\$49.00	\$49.00	\$49.00
Mix 2C	\$48.00	\$48.00	\$48.00	\$48.00	\$48.00	\$48.00
Mix 3C	\$49.50	\$49.50	\$49.50	\$49.50	\$49.50	\$49.50
Mix 4C	\$51.00	\$51.00	\$51.00	\$51.00	\$51.00	\$51.00
Mix 4C Wearing (Virgin)	\$58.00	\$58.00	\$58.00	\$58.00	\$58.00	\$58.00
11A/2C RCOC R.O.W.	N/A	\$60.00	\$60.00	N/A	\$60.00	N/A
3C RCOC R.O.W.	N/A	\$54.00	\$54.00	N/A	\$54.00	N/A
4C RCOC R.O.W.	N/A	\$55.00	\$55.00	N/A	\$55.00	N/A
2C RCOC S.A.D.	N/A	\$60.00	\$60.00	N/A	\$60.00	N/A
3C RCOC S.A.D.	N/A	\$55.50	\$55.50	N/A	\$55.50	N/A
13A RCOC S.A.D.	N/A	\$54.00	\$54.00	N/A	\$54.00	N/A
36A Wearing RCOC	N/A	\$55.00	\$55.00	N/A	\$55.00	N/A
Wayne Co. Base Course	N/A	N/A	N/A	\$47.00	\$47.00	\$47.00
Wayne Co. Leveling Course	N/A	N/A	N/A	\$48.00	\$48.00	\$48.00
Wayne Co. Wearing Course	N/A	N/A	N/A	\$63.00	\$63.00	\$63.00
SPM-CB Cold Patch	\$75.00	N/A	\$75.00	\$75.00	N/A	\$75.00
SPM-EL Cold Patch	N/A	N/A	N/A	N/A	\$75.00	N/A
UPM Cold Patch	\$85.00	N/A	\$85.00	\$85.00	\$85.00	\$85.00
SS-1H (Per Gallon Bulk)	N/A	\$6.00	N/A	\$6.00	N/A	N/A
SS-1H (Five gallon pail)	\$55.00	\$55.00	\$55.00	\$55.00	\$55.00	\$55.00
Dump Fee (broken asphalt)	No Charge	\$10 / axle	\$10 / axle	\$10 / axle	\$10 / axle	\$10 / axle

Prices do not include sales tax. The above mixtures are "standard" mixtures. They include either PG 64-22 or PG 58-22 asphalt binder and are not valid for any mixture requiring modification of our standard mix designs. Please call our central sales office for pricing of mixtures requiring use of asphalt binders other than PG 64-22 and PG 58-22 or for any other mixture modification including but not limited to mixtures utilizing Michigan Department of Transportation (MDOT) testing specifications or any other specification tested mixes. Submission of Order Acknowledgement is required for all non-standard mixtures and conditions contained therein apply to all HMA purchases.

The above mixtures are not designed to be used for tennis courts, running tracks or similar "play" areas. Please contact our sales office regarding mixtures required for these applications. No warranty will be made on materials used for tennis courts, running tracks, or other play areas without prior approval of mix designs from our laboratory.

The prices specified herein are subject to a positive price adjustment per job account of \$250.00 whenever Ajax is, in its judgement, required to prepare and record a Claim of Construction Lien to protect its right to collect payment for the material sold to under such job account.

Acceptance of clean, broken asphalt will be at the sole discretion of Ajax. Prices are subject to change without notice.

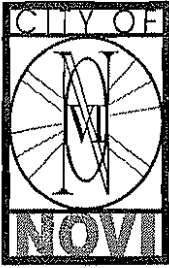
**2008 PRICE LIST**  
**ROMULUS PLANT #171**  
 13501 HURON RIVER DR.  
 ROMULUS, MI 48174  
 734-941-0200

<u>PRODUCT CODE</u>	<u>COMMERCIAL MIXES</u>	<u>PRICES</u>
174500	COMMERCIAL BASE	\$55.50
174525	COMMERCIAL LEVELING	\$57.50
174520	COMMERCIAL TOP	\$59.50
174531	COMMERCIAL FINE	\$61.50
178039	CRUSHED RAP OUT	\$28.50
	 <u>GOVERNMENTAL MIXES</u>	
174050	20C BASE (MDOT)	\$57.50
174115	20AA 1100 LEVELING (MDOT)	\$61.50
174110	20AA 1100 TOP (MDOT)	\$62.50
174135	20AAA 1300 LEVLING (MDOT)	\$63.50
174130	20AA 1300 TOP (MDOT)	\$64.50
174036	36A WEARING (MDOT)	\$65.50
174611	11A (MDOT)	\$66.50
174613	13A TOP (MDOT)	\$68.50
174625	2B (MDOT)	\$69.50
174635	3B (MDOT)	\$69.50
174645	4B (MDOT)	\$70.50
	 <u>SS-1H TACK</u>	
178020	PAILS TACK - GAL PAIL	\$32.00
178030	BULK TACK- 50/150 GAL.	\$3.25
178040	BULK TACK- 150/500 GAL.	\$3.10
178050	BULK TACK- OVER 500 GAL.	\$3.00
	 <u>COLDPATCH</u>	
175051 175060 175052	CP-5 STYRELF	<del>\$100.00</del> 90.00
	CP-7 U.P.M. (FORMALLY SYLVAX)	\$101.00
	 <u>MISC.</u>	
178000	Lutes	\$48.00
178004	Lute Blades	\$26.00
178005	Braces	\$21.00
178100	Scale fee	\$10.00

# CITY OF NOVI Request for Purchase Order

Req #. 000001199

Page: 1



cityofnovi.org

Vendor ID: 01432  
Department#: DEPARTMENT OF PUBLIC WORK  
Date: 09/22/2008  
Requested By: CHRISTINE SLATER

### Vendor Name & Address

CADILLAC ASPHALT LLC

PO BOX 87248

CANTON, MI 48188

City Council Approved Date:

Quantity	Unit of Measure	Item Description/Item Info/GL Distribution	Unit Price	Extended Price
400.000	TONS	ASPHALT 202-202.00-866.000	45.00	\$18,000.00

Total: \$18,000.00

### Vendor Competitive Notes

ASPHALT WILL BE USED TO PAVE A PORTION OF MEADOWBROOK & CATHERINE INDUSTRIAL DRIVE

QUOTES:

AJAX \$45.75 PER TON

BARRET \$59.50 PER TON

*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

**Actual Tons Used**

Date September 19, 2008

Job Location Meadowbrook Rd (east side) Between or Near 500' n/of Village Lk

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
500	8	4000	4	88.9 TONS

Asphalt price per ton

\$45.00

Total Cost for Asphalt

\$4,000.0

**Rental Equipment Rates**

Paving Machine

Mo. Rate	\$13,000.00
Daily Rate	\$433.33

Asphalt Roller

Mo. Rate	\$1,750.0
Daily Rate	\$58.3

Daily Rental Costs

\$491.67
Hourly Rental Cost
\$61.46

City Owned Equipment Cost

Single Axle Dump

Tandem Axle Dump

Equipment Total Cost  
Per Hour

\$0.00

Crew Cost

Crew Leader	Heavy Equipment	Light Equipment	Laborers

Crew Cost Per Hour

\$0.00

Estimated Time to Complete Paving

 Hours

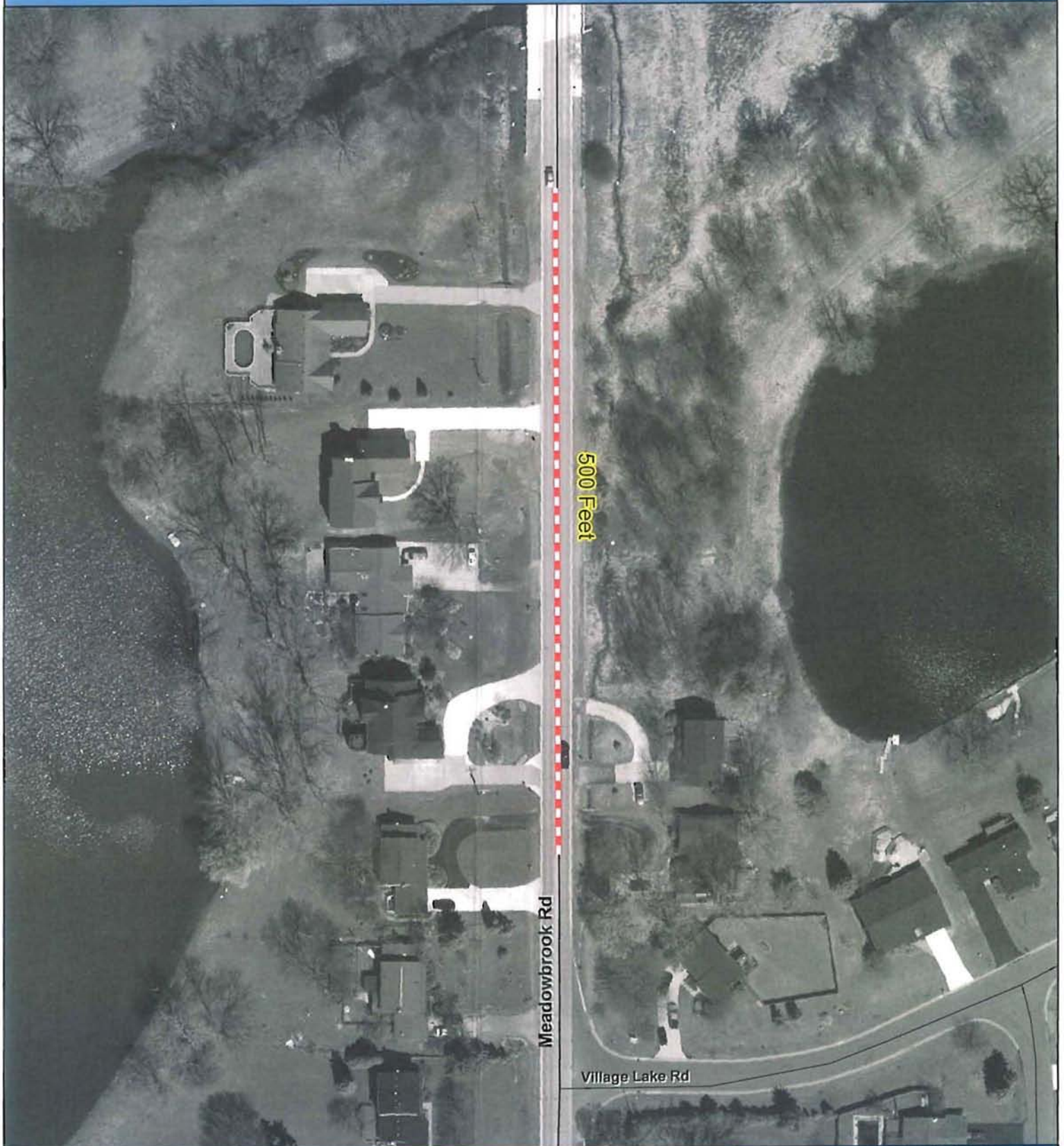
Complete Cost for Paving

\$4,000.00



# City of Novi - Department of Public Works

## Paving on the shoulder of Meadowbrook between Chattman St & Village Lake Rd.



**CITY OF NOVI**  
DEPARTMENT OF PUBLIC WORKS &  
DEPARTMENTS OF WATER & SEWER  
NOVI CITY DPW OFFICES  
26300 DELWAL  
NOVI, MI 48375  
(248) 735-5640  
WWW.CITYOFNOVI.ORG



Map Print Date: September 26, 2008  
Map Author: Jeff Van Curier



### MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.



*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

Actual Tons Used

Date September 16, 2008

Job Location Catherine Industrial Drive Between or Near N/of 10 Mile

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
750	31.5	23625	2	262.5 TONS

Asphalt price per ton

Total Cost for Asphalt

**Rental Equipment Rates**

**Paving Machine**

Mo. Rate	\$13,000.00
Daily Rate	\$433.33

**Daily Rental Costs**

\$491.67
Hourly Rental Cost
\$61.46

**Asphalt Roller**

Mo. Rate	\$1,750.0
Daily Rate	\$58.3

**City Owned Equipment Cost**

Single Axle Dump	Tandem Axle Dump
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**Equipment Total Cost Per Hour**

**Crew Cost**

Crew Leader	Heavy Equipment	Light Equipment	Laborers

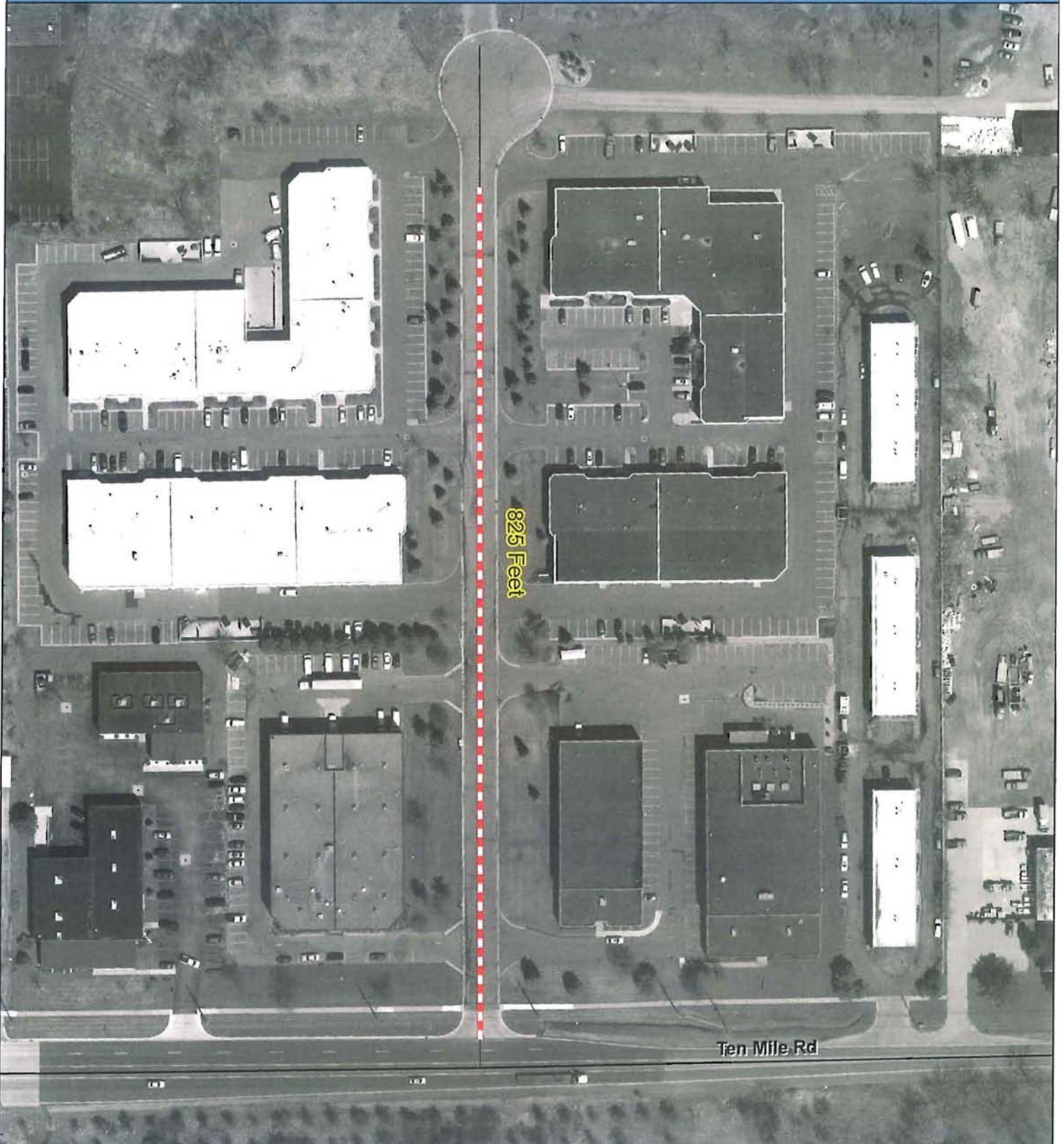
**Crew Cost Per Hour**

Estimated Time to Complete Paving  
 Hours

**Complete Cost for Paving**

# City of Novi - Department of Public Works

## Paving on Catherine Industrial Drive



**CITY OF NOVI**  
DEPARTMENT OF PUBLIC WORKS &  
DEPARTMENTS OF WATER & SEWER  
NOVI CITY DPW OFFICES  
26300 DELWAL  
NOVI, MI 48375  
(248) 735-5640  
WWW.CITYOFNOVI.ORG



Map Print Date: September 26, 2008  
Map Author: Jeff Van Curler  
0 45 90 180 270  
FEET  
1 INCH = 129 FEET

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*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

Actual Tons Used

Date 9-3-08

Job Location Beck

Between or Near

S. of 9. N of city limits

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
2275	30	68250	2.75	1042.7

TONS

Asphalt price per ton

\$45.00

Total Cost for Asphalt

\$46,921.9

Rental Equipment Rates

Paving Machine

Mo. Rate

\$13,500.00

Daily Rate

\$450.00

Daily Rental Costs

\$516.67

Hourly Rental Cost

\$64.58

Mo. Rate

\$2,000.0

Daily Rate

\$66.7

Asphalt Roller

City Owned Equipment Cost

Single Axle Dump

Tandem Axle Dump

Equipment Total Cost  
Per Hour

\$0.00

Crew Cost

Crew Leader	Heavy Equipment	Light Equipment	Laborers

Crew Cost Per Hour

\$0.00

Estimated Time to Complete Paving

 Hours

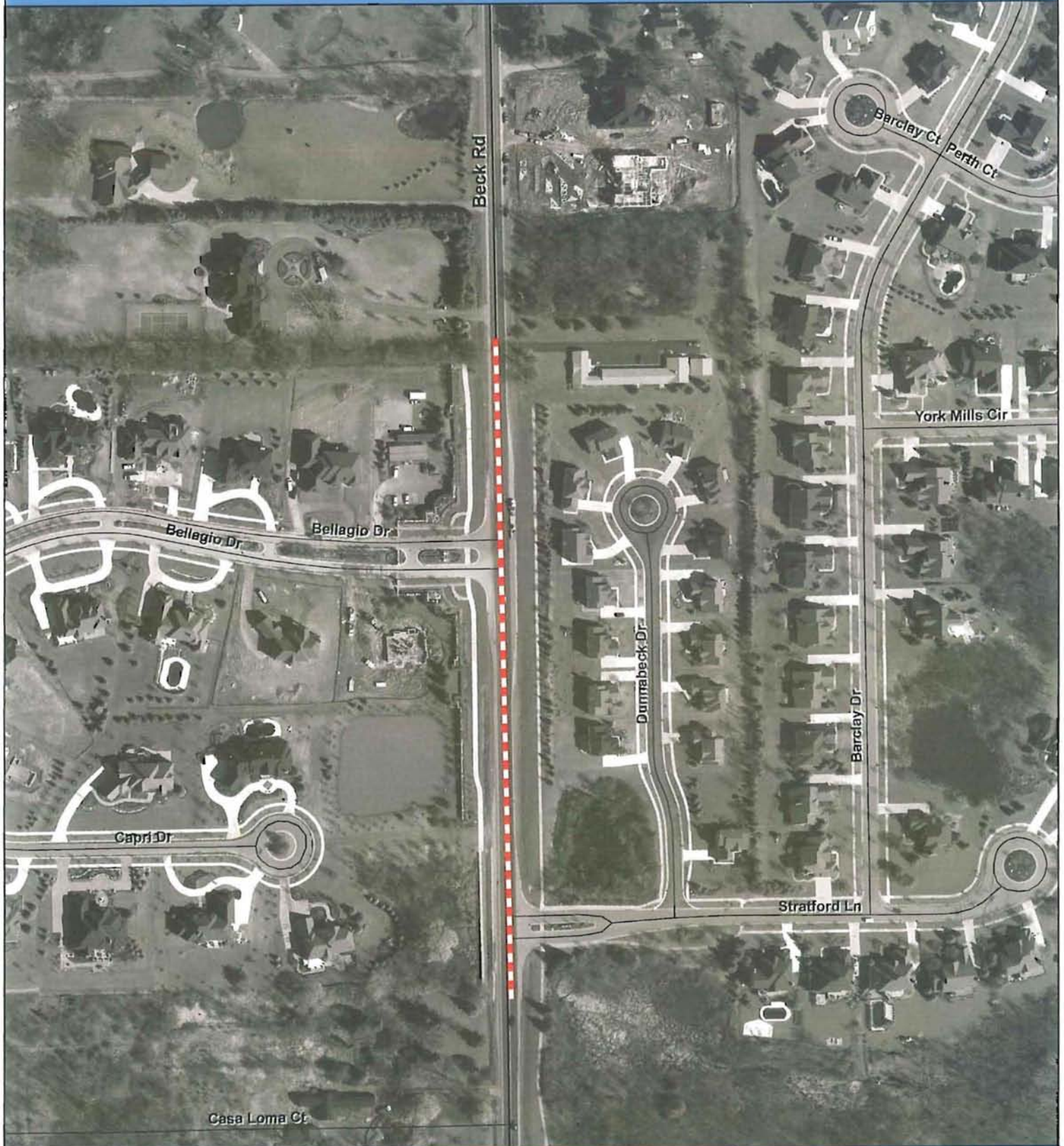
Complete Cost for Paving

\$46,921.88

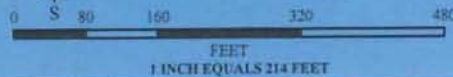


# City of Novi - Department of Public Works

## Paving on Beck Rd. Between Nine Mile Rd. and Eight Mile Rd.



**CITY OF NOVI**  
 DEPARTMENT OF PUBLIC WORKS &  
 DEPARTMENTS OF WATER & SEWER  
 NOVI CITY DPW OFFICES  
 26300 DELWAL  
 NOVI, MI 48375  
 (248) 735-5640  
 WWW.CITYOFNOVI.ORG



Map Print Date: August 18, 2008  
 Map Author: Jeff Van Curler

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*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

Actual Tons Used

Date 9-23-08

Job Location West Rd Between or Near E. of R.R. Tracks w. of W.P.

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
700	46	32200	2	357.8

TONS

Asphalt price per ton

\$46.00

Total Cost for Asphalt

\$16,457.8

Rental Equipment Rates

Paving Machine

Mo. Rate	
Daily Rate	\$0.00

Asphalt Roller

Mo. Rate	
Daily Rate	\$0.0

Daily Rental Costs

\$0.00
Hourly Rental Cost
\$0.00

City Owned Equipment Cost

Single Axle Dump

Tandem Axle Dump

Equipment Total Cost Per Hour

\$0.00

Crew Cost

Crew Leader	Heavy Equipment	Light Equipment	Laborers

Crew Cost Per Hour

\$0.00

Estimated Time to Complete Paving

 Hours

Complete Cost for Paving

\$16,457.78



# City of Novi - Department of Public Works

## Paving on West Road and Hudson.



**CITY OF NOVI**  
DEPARTMENT OF PUBLIC WORKS &  
DEPARTMENTS OF WATER & SEWER  
NOVI CITY DPW OFFICES  
26300 DELWAL  
NOVI, MI 48375  
(248) 735-5640  
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Map Author: Jeff Van Curler

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*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

Actual Tons Used

Date 9-17-08

Job Location West Park Entrance <sup>Trial</sup> Between or Near \_\_\_\_\_

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
200	46	9200	2	102.2 TONS

Asphalt price per ton

Total Cost for Asphalt

Rental Equipment Rates

Paving Machine  
 Mo. Rate   
 Daily Rate

Daily Rental Costs  
  
 Hourly Rental Cost

Asphalt Roller  
 Mo. Rate   
 Daily Rate

City Owned Equipment Cost

Single Axle Dump  Tandem Axle Dump

Equipment Total Cost Per Hour

Crew Cost

Crew Leader	Heavy Equipment	Light Equipment	Laborers
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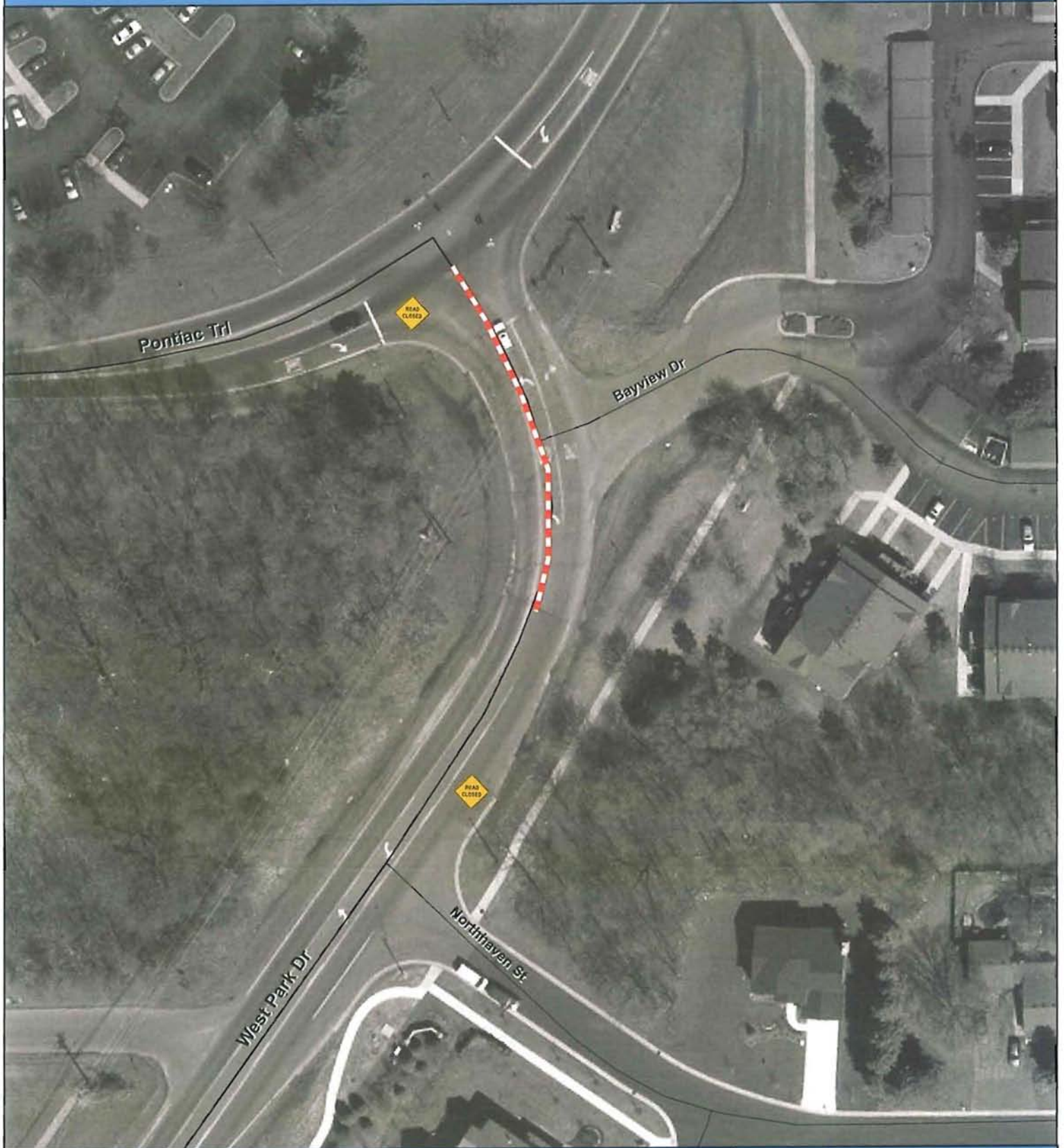
Crew Cost Per Hour

Estimated Time to Complete Paving  
 Hours

Complete Cost for Paving



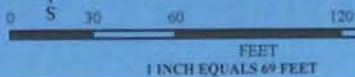
City of Novi - Department of Public Works  
Paving on West Park Drive at Pontiac Trail.



**CITY OF NOVI**  
DEPARTMENT OF PUBLIC WORKS &  
DEPARTMENTS OF WATER & SEWER  
NOVI CITY DPW OFFICES  
26300 DELWAL  
NOVI, MI 48375  
(248) 735-5640  
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*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

Date May 9, 2007

Job Location Novi Road Between 12 Mile & 13 Mile

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
9087	13	118,131.00	3	1968.9 TONS

Asphalt price per ton

\$39.50

Total Cost for Asphalt

\$77,769.6

Rental Equipment Rates

Paving Machine

Mo. Rate	\$13,500.00
Daily Rate	\$450.00

Asphalt Roller

Mo. Rate	\$1,750.0
Daily Rate	\$58.3

Daily Rental Costs

\$508.33
Hourly Rental Cost
\$63.54

City Owned Equipment Cost

Single Axle Dump

8

Tandem Axle Dump

3

Equipment Total Cost Per Hour

\$410.56

Crew Cost

Crew Leader	Heavy Equipment	Light Equipment	Laborers
2	5	2	5

Crew Cost Per Hour

\$666.27

Estimated Time to Complete Paving

32

 Hours

Milling  
 13125.67 Sq yds 2" to 3" in depth  
 \$.74 sq yd  
 \$9,712.99

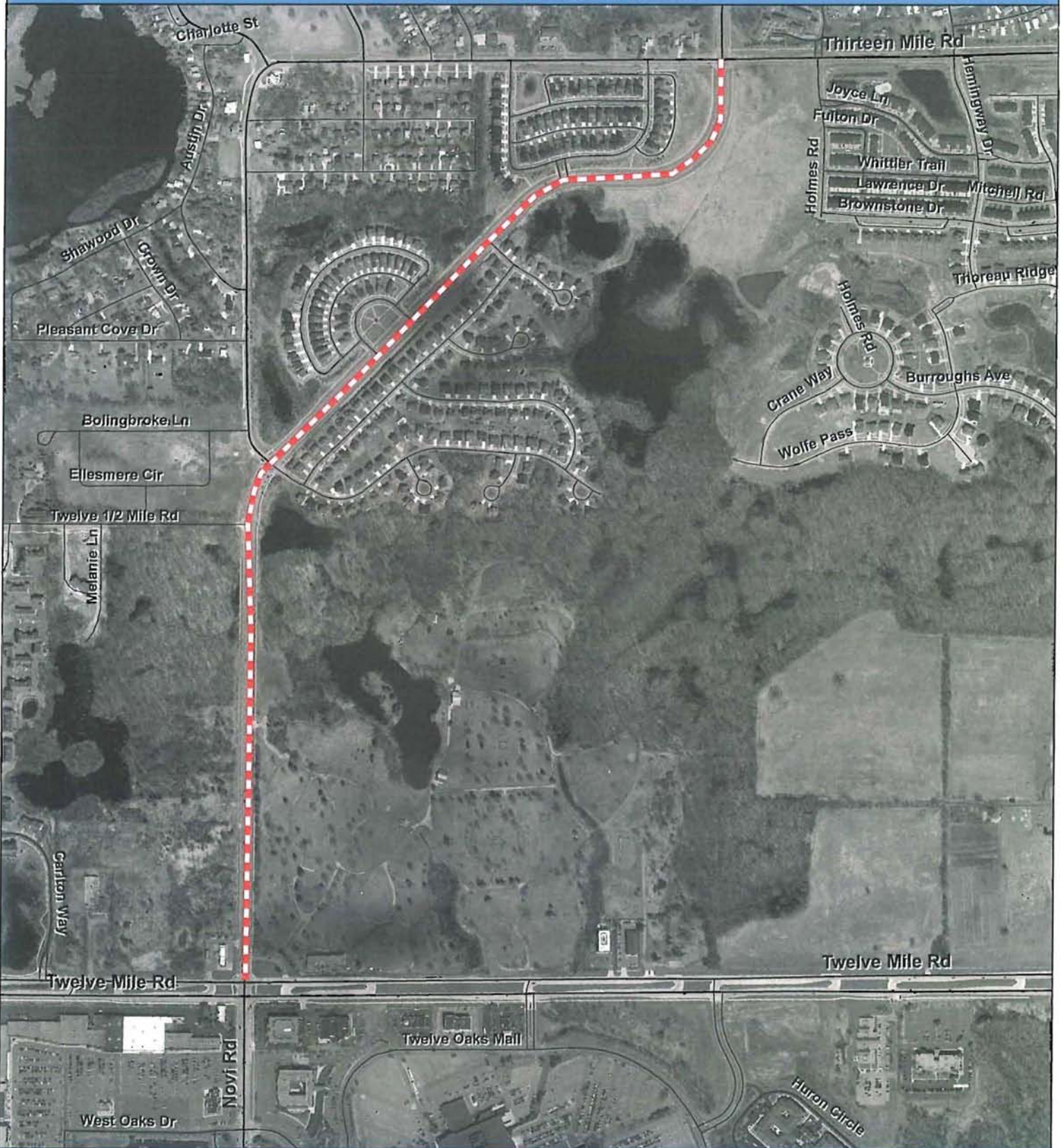
Complete Cost for Paving

\$114,261.47



# City of Novi - Department of Public Works

Paving Novi Rd. - DPW paved 9,087 feet of Novi Rd between  
12 Mile Rd and 13 Mile Rd.



**CITY OF NOVI**  
DEPARTMENT OF PUBLIC WORKS &  
DEPARTMENTS OF WATER & SEWER  
NOVI CITY DPW OFFICES  
26300 DELWAL  
NOVI, MI 48375  
(248) 735-5640  
WWW.CITYOFNOVI.ORG



Map Print Date: September 26, 2008  
Map Author: Jeff Van Curler



#### MAP INTERPRETATION NOTICE

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*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

Date February 13, 2007

Job Location Donelson Drive Between or Near West Oaks and 12 Mi

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
1300	35	45500	3	758.3

TONS

Asphalt price per ton

\$39.50
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Total Cost for Asphalt

\$29,954.2
------------

Rental Equipment Rates

Paving Machine

Mo. Rate	\$13,500.00
----------	-------------

Daily Rate	\$450.00
------------	----------

Asphalt Roller

Mo. Rate	\$1,750.0
----------	-----------

Daily Rate	\$58.3
------------	--------

Daily Rental Costs

\$508.33
----------

Hourly Rental Cost
\$63.54

City Owned Equipment Cost

Single Axle Dump

8
---

Tandem Axle Dump

3
---

Equipment Total Cost  
Per Hour

\$410.56
----------

Crew Cost

Crew Leader	Heavy Equipment	Light Equipment	Laborers
2	5	2	5

Crew Cost Per Hour

\$666.27
----------

Estimated Time to Complete Paving

32
----

Hours

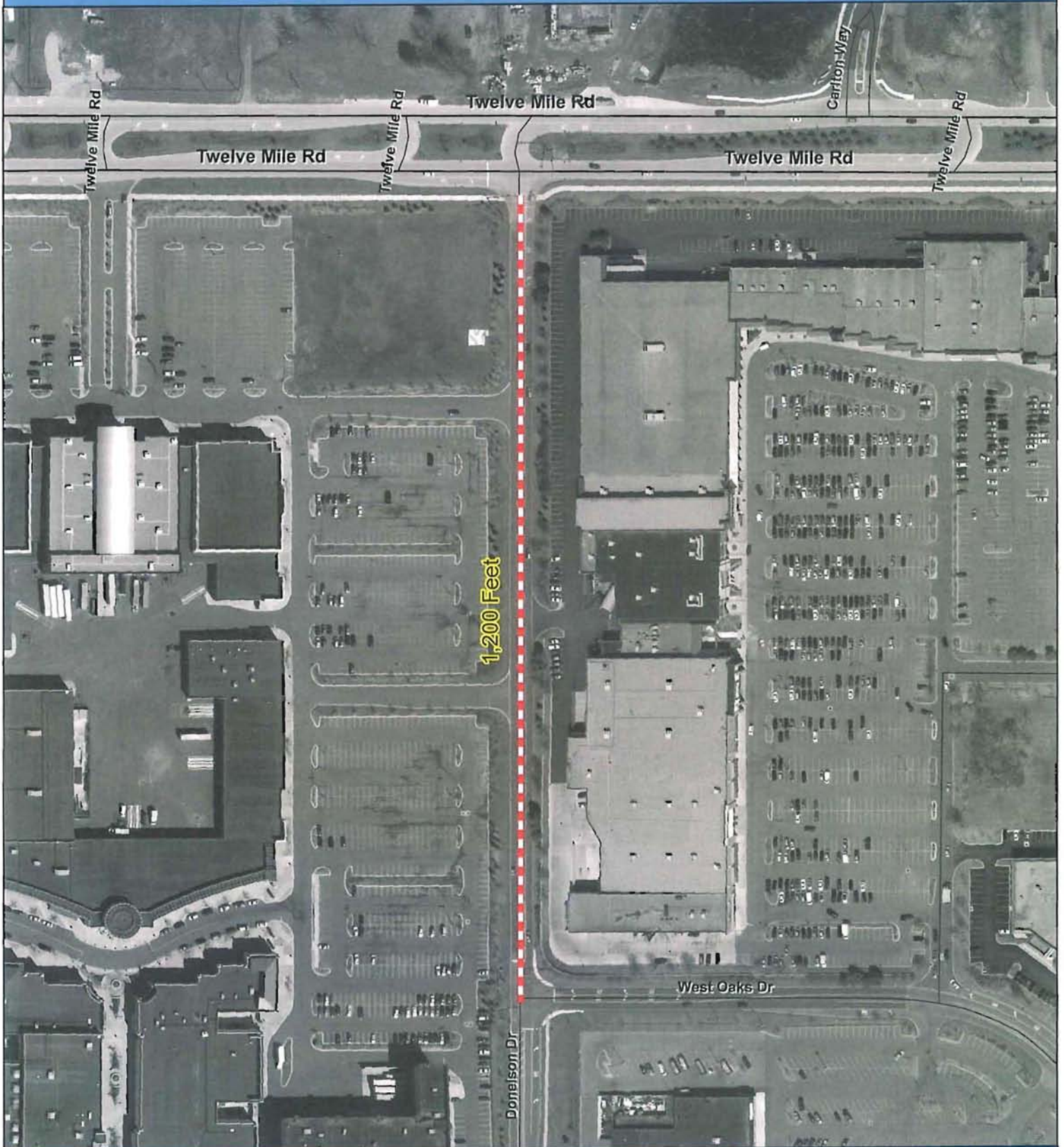
Milling  
5055.556 Sq yds  
\$.74 sq yd  
\$3,741.11

Complete Cost for Paving

\$66,446.06
-------------



**City of Novi - Department of Public Works**  
**Paving Donelson Drive between 12 Mile Rd and West Oaks Dr..**



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*City of Novi*  
**Department of Public Works**  
*Asphalt Paving Worksheet*

Actual Tons Used

Date 8/19/08

Job Location police station drive Between or Near \_\_\_\_\_

Asphalt Calculations				
Length	Width	Square Footage	Thickness (inches)	Total Tons of Asphalt
385	21	8085	2	89.8 TONS

Asphalt price per ton

Total Cost for Asphalt

Rental Equipment Rates

**Paving Machine**

Mo. Rate	
Daily Rate	\$0.00

Daily Rental Costs

\$0.00
Hourly Rental Cost
\$0.00

**Asphalt Roller**

Mo. Rate	
Daily Rate	\$0.0

City Owned Equipment Cost

Single Axle Dump

Tandem Axle Dump

Equipment Total Cost Per Hour

Crew Cost

Crew Leader	Heavy Equipment	Light Equipment	Laborers

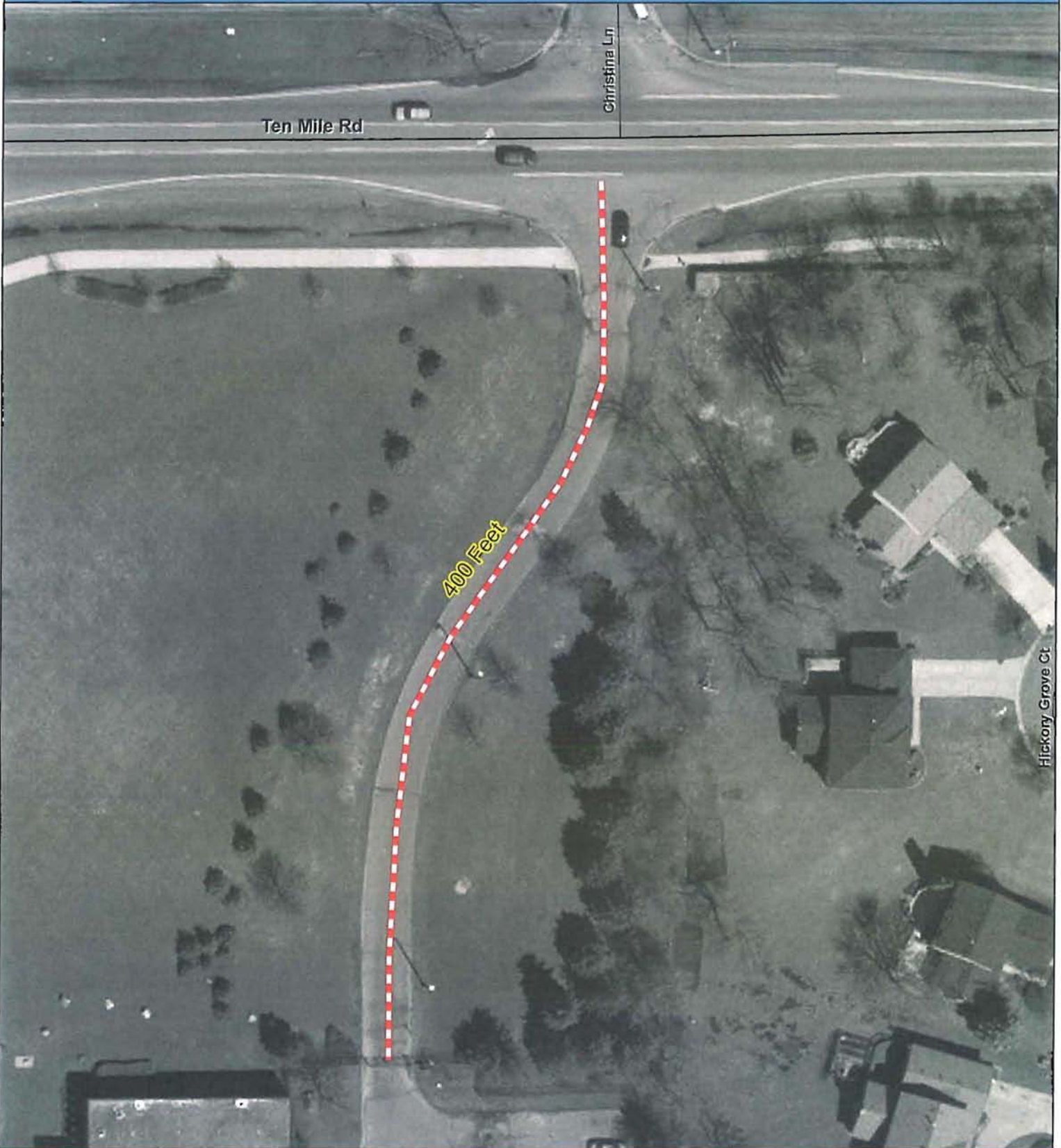
Crew Cost Per Hour

Estimated Time to Complete Paving  
 Hours

Complete Cost for Paving



City of Novi - Department of Public Works  
Paving Novi Police Department Back Driveway.



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DEPARTMENTS OF WATER & SEWER  
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