

City of Boyne City
Founded 1856

319 N. Lake Street

Boyne City, Michigan 49712
www.boynecity.com

Phone 231-582-6597
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**BOYNE CITY
CITY COMMISSION SPECIAL MEETING
Boyne City Hall
319 North Lake Street
Tuesday, May 28, 2013 at Noon**

1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE
2. ROLL CALL
3. CONSENT AGENDA
The purpose of the consent agenda is to expedite business by grouping non-controversial items together to be dealt with by one Commission motion without discussion. Any member of the Commission, staff, or the public may ask that any item(s) on the consent agenda be removed and placed as the last item under new business to receive full discussion. Such requests will be automatically respected.
 - A. Approval of the May 14, 2013 City Regular City Commission meeting minutes as presented
 - B. Approval to appoint Kelly Martin to the Boyne City Historic District Commission with a term to expire on November 30, 2016
 - C. Approval to cancel the May 28, 2013 7:00 pm meeting
4. HEARING CITIZENS COMMENTS (on non-agenda items; 5 minute limit)
5. CORRESPONDENCE
6. CITY MANAGER'S REPORT
7. REPORTS OF OFFICERS, BOARDS, AND STANDING COMMITTEES
8. UNFINISHED BUSINESS
 - A. Dr. Kirkby Property Donation
9. NEW BUSINESS
 - A. 1st Reading Outdoor Sidewalk Cafe Ordinances
 - i) Consideration of a first reading of amendments to the Boyne City Zoning Ordinance to remove Sidewalk Cafes and schedule a second reading for July 9, 2013; and
 - ii) Consideration of a first reading of a new general ordinance allowing Outdoor Sidewalk Cafes with alcohol and to schedule a second reading for July 9, 2013

An Equal Opportunity Provider and Employer

Hometown Feel, Small Town Appeal

- B. Lower Lake Street Drainage Improvement Options
Review of Lower Lake Street drainage analysis and consideration to provide direction to staff as how to proceed further
- C. Gravel Road Paving Estimates
Review of materials presented regarding cost estimates for paving gravel streets and consideration to provide direction to staff as how to proceed further
- D. Pleasant and Division Streets
Consideration to direct staff to proceed in using MDOT Local Road Funds to undertake road improvements on Division and Pleasant Streets at the earliest reasonable opportunity
- E. SOBO Arts Festival Grant
Consideration to authorize the City Manager to sign the necessary documentation to accept the grant from the Charlevoix County Community Foundation in the amount of \$1,900 for the 2013 SOBO Arts festival
- F. Theater Planning Grant
Consideration to authorize the City Manager to sign and complete necessary documents related to the Michigan Economic Development Corporation's Downtown Planning Grant
- G. PAR Plan Insurance Grant
Consideration to approve a resolution of support to apply for a grant of \$4,700 from the Michigan Township Participating Plan's Risk Reduction Grant Program and authorize the City Manager and/or City Clerk / Treasurer to prepare and sign the necessary documents to apply for an implement the grant as proposed
- H. Airport Parking
Consideration to approve the use of boat trailer storage at the Boyne City Airport through October and adopt the proposed fees into the City's fee schedule as part of the FY 13/14 Budget
- I. Request of the City Manager to go into closed session with our attorney regarding Attorney/Client Privilege communications as provided in MCL 15.268 (h) of the Michigan Open Meetings Act (PA 267 of 1976)

10. GOOD OF THE ORDER

11. ANNOUNCEMENTS

- The Special City Commission / Planning Commission meeting is scheduled for Tuesday, May 28, 2013 at 6:00 p.m.
- The next regular City Commission meeting is scheduled for Tuesday, June 11, 2013 at 7:00 p.m.

12. ADJOURNMENT

Individuals with disabilities requiring auxiliary aids or services in order to participate in municipal meetings may contact Boyne City Hall for assistance: Cindy Grice, City Clerk/Treasurer, 319 North Lake Street, Boyne City, MI 49712; phone (231) 582-0334



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www.cityofboyne.com
click on Boards & Commissions for complete
agenda packets & minutes for each board*

**MAY 14, 2013
REGULAR MEETING**

RECORD OF THE PROCEEDINGS OF THE REGULAR BOYNE CITY COMMISSION MEETING DULY CALLED AND HELD AT BOYNE CITY HALL, 319 NORTH LAKE STREET, ON TUESDAY MAY 14, 2013 AT 7:00 PM

CALL TO ORDER

Mayor Grunch called the meeting to order at 7:00 followed by the Pledge of Allegiance.

Present: Mayor Ron Grunch, Mayor Pro-Tem Gene Towne, Commissioner Laura Sansom, Tom Neidhamer and Derek Gaylord

Staff: Andy Kovolski, Michael Cain, Hugh Conklin, Jeff Gaither, Scott McPherson, Barb Brooks, and Cindy Grice

Others: There were 9 citizens in attendance, including representatives from the Charlevoix County News and Petoskey News Review

**CONSENT AGENDA
MOTION**

2013-05-062
Moved by Sansom
Second by Towne

2013-05-062A
Approval of the April 23, 2013 City Regular City Commission meeting minutes as presented

2013-05-062B
Approval to re-appoint Pat Kubesh to the Zoning Board of Appeals with a term to expire on September 1, 2016

2013-05-062C
Approval to re-appoint Roger Reynolds to the Zoning Board of Appeals with a term to expire on September 1, 2016

2013-05-062D
Approval to appoint Jo Bowman to the Parks & Recreation board to fill a board vacancy with a term to expire on December 31, 2014

Ayes: 5
Nays: 0
Absent: 0
Motion carried

CITIZENS COMMENTS

None

CORRESPONDENCE

Correspondence from Susan Sharp / Boyne City Middle School was received and filed. Correspondence from Senator Carl Levin declining the invitation to the Main Street Anniversary celebration was also received and filed.

CITY MANAGER'S REPORT

City Manager Cain reported:

- Precision Edge won NLEA's Business of the Year award
- The Water / Wastewater crew has wrapped up their hydrant flushing.
- The Ironton Ferry moved to the One Water marina
- Harborage dredging is now underway

- Assistant Planner Leslie Meyers has informed us she will be resigning from her position effective May 25.
- The marina opens for the season on May 15.
- DPW crews are helping to expand the Community garden

**REPORTS OF OFFICERS,
BOARDS AND STANDING
COMMITTEES**

**William H White House
Project**

Draft Minutes of the April 4, 2013 Main Street Board Meeting; the April 11, 2013 Parks & Recreation Commission Meeting; the April 15, 2013 Special LDFA Meeting; the April 15, 2013 Special EDC Meeting and the April 15, 2013 Planning Commission Meeting were received and filed.

Consideration of Northern Homes' request of City Support of William H White – 417 Boyne Avenue house restoration.

City Manager Cain discussed the Northern Homes request. Northern Homes has plans to purchase and rehabilitate the William H. White House located at 417 Boyne Avenue. The goal is to rehabilitate the house and renovate the interior changing it from five apartments to four. The apartments will be rented to seniors aged 55 or older. Northern Homes is applying to the Federal Home Loan Bank for their Affordable Housing Program grant. They will be applying for the maximum amount of the grant which is \$500,000. In addition, Northern Homes is requesting the City of Boyne City apply for CDBG Rental Rehabilitation funds from MSHDA. MSHDA staff has reviewed the project location and plans and have agreed to also accept an application for this project.

In April 2013, the property was tax foreclosed by Charlevoix County. The Charlevoix County Treasurer has sent a letter to Boyne City to notify the City of the property's availability.

Northern Homes is requesting the City notify the County Treasurer that the City is not interested in purchasing 417 Boyne Avenue and request the property be placed in the Charlevoix County Land Bank to sell to Northern Homes CDC subject to grant funds being awarded. Northern Homes further requests the City of Boyne City apply to MSHDA for \$140,000 Rental Rehabilitation program funds and \$14,000 for grant administration and to enter into a Third Party Administration Agreement between the City of Boyne City and Northern Homes CDC to administer the grant funds.

Staff Comments: Main Street Director Hugh Conklin said the Main Street Board hasn't considered this yet. Speaking for himself, he thinks this is a really important building in the community's history. The house is currently in difficult shape.

Citizens Comments: Jim Bauman said his board hasn't taken a position on this yet, but personally he agrees with Hugh. He doesn't think private enterprise is going to save this building. It seems like Northern Homes has put together a good plan and this may be the last best chance.

Bill Beamon said his neighbors have had discussion and in general, they regard it as an eyesore and would like to see it be addressed. Can't see anyone from a private standpoint doing so and can't see any other way to see that building brought into repair. If it can be fixed, let's fix it.

Board Deliberation: Mayor Pro Tem Towne said he believes this will be a good start. Commissioner Gaylord inquired if the land bank had any input and Jane MacKenzie of Northern Homes said she spoke with County Treasurer Marilyn Cousineau who doesn't see an issue. Northern Homes would be the deeded owner. Commissioner Sansom said she is very happy to see that something can come of this property and is in total favor of this recommendation. It may start the ball rolling on other projects. Commissioner Neidhamer is in full support for all reasons indicated including affordable senior housing within walking distance from town. It would improve the entry into town.

MOTION

2013-05-063

Moved by Grunch

Second by Towne

To approve the request of Northern Homes to notify the County Treasurer that the City is not interested in purchasing 417 Boyne Avenue and request the property be placed in the Charlevoix County Land Bank to sell to Northern Homes CDC subject to grant funds being awarded; to approve the Northern Homes request that the City of Boyne City apply to MSHDA for \$140,000 Rental Rehabilitation program funds and \$14,000 for grant administration and to enter into a Third Party Administration Agreement between the City of Boyne City and Northern Homes CDC to administer the grant funds, and provide a letter of support for this project acknowledging this comprehensive plan and general support of this project.

Ayes: 5

Nays: 0

Absent: 0

Motion carried

**Charlevoix County
Foreclosed property**

Consideration to decline Charlevoix County's current offer of properties to the City of Boyne City and authorize staff to respond accordingly while also informing the County the City's desire that the 417 Boyne Avenue be added to the County's land bank for reuse as outlined by Northern Homes or something similar.

City Manager Cain discussed the Charlevoix County Treasurer's offer to the City of properties they have foreclosed on due to unpaid taxes. There are five properties being offered to us for the cost of the back taxes and fees. There are no properties in this current batch that would be of benefit to the community if the City owned them. Staff does support the the 417 Boyne Avenue property house goes to the County and bank for reuse as outlined by Northern Homes.

Citizens Comments: None

Staff Comments: None

Board Deliberation: All are in agreement with the recommendation.

2013-05-064

Moved by Grunch

Second by Towne

To decline Charlevoix County's current offer of properties to the City of Boyne City and authorize staff to respond accordingly while also informing the County the City's desire that the 417 Boyne Avenue be added to the County's land bank for reuse as outlined by Northern Homes or something similar.

Ayes: 5

Nays: 0

Absent: 0

Motion carried

Consideration to approve the request by the Michigan Mountain Mayhem and Magnum Hospitality to serve alcohol in accordance with the rules of the Liquor Control Commission during the pre-event registration party from 5 to 9 pm on June 7, 2013

Michigan Mountain Mayhem Request

Hugh Conklin discussed the request of Paul Nicholls, whose event Michigan Mountain Mayhem has grown into one of the signature bicycling events in Michigan with 1500 participants. Working with Magnum Hospitality, Mr. Nicholls is requesting that the 100 block of Water between Park and Lakes Streets be closed from 3 – 9 pm on Friday June 7th. The event is scheduled to run from 5 – 9 pm but two hours will be needed to clear the streets and for set up. There will be live music and an Expo. Working with Magnum Hospitality, Mr. Nicholls is also requesting permission to set up an area in the 100 block of Water Street to sell alcohol. The proposed area would be enclosed with orange fencing and would run from Red Mesa to Local Flavor on the north side and North Country Cycle to Schraw and Associates on the south side of Water Streets with fencing set up curb to curb. The sidewalk on either side will remain open for pedestrian traffic. Police Chief Jeff Gaither has also reviewed the plans and is comfortable with this.

City Manager Cain added there have been no problems with the event in the past and the City will be named as additionally insured.

Staff Comments: None

Citizens Comments: Jim Baumann said it is a great idea for a fun night. Paul is a great event organizer.

Board Deliberation: Commissioner Neidhamer said this is an exciting opportunity and commends Paul and all involved. Mayor Pro-Tem Towne said he is not sold on alcohol on the streets, but keeping an open mind. Commissioner Gaylord said he has no problem with the bicycle event but is concerned with alcohol on the streets and can't endorse it. Commissioner Sansom said she is not totally sold on it. It is more of a private party. Chief Gaither said the event will be providing its own security. It is Red Mesa's temporary license. Commissioner Neidhamer said this is open to the public. Professional people can handle this. Mayor Grunch said special events put Boyne City on the map and he is in full support.

2013-05-065

Moved by Neidhamer

Second by Towne

MOTION

To approve the request by the Michigan Mountain Mayhem and Magnum Hospitality to serve alcohol in accordance with the rules of the Liquor Control Commission during the pre-event registration party from 5 to 9 pm on June 7, 2013 with the condition that staff has the right to close the party

Ayes: 4

Nays: 1, Commissioner Gaylord

Absent: 0

Motion carried

Consideration to approve acceptance of property located behind the Johnson Oil gas station at 209 and 211 South Lake Street donated from Dr. Dennis Kirkby and authorize the City Manager to execute the documents.

Property Donation

Main Street Director Hugh Conklin discussed the property behind the Johnson Oil gas station at 209 and 211 S Lake Street and the offer from the owner, Dr. Dennis Kirkby to donate the property. A meeting was held with Dr. Kirkby to see if he would grant an easement to the City next to the sidewalk on the north end of the parking lot to locate the new electrical box. Not only did Dr. Kirkby agree to the easement, but he offered to give the city, the entire piece of property running along the alley, which has a total of 13 parking spaces. This would allow the City to move forward in placing a new utility box and to create possible opportunities to expand public parking in the downtown area. However, in 1996, a site plan was approved when the 209 and 211 S. Lake Street building was built and the parking area established, a stipulation was made that prohibited it from being donated. The site plan was approved with the condition that the parcel proposed for the 17 parking spots behind the building be recorded with the Register of Deeds as one contiguous parcel to the main parcel at 207 – 209 South Lake Street meaning the two parcels were combined as one unless the Planning Commission amended the site plan. A request to do that was presented at the November Planning Commission meeting and was unanimously approved to amend the original site plan by the parking lot not being combined with the main parcel at 209 South Lake Street and the 17 parking space requirement for the building be waived. With that action taken, the Main Street board considered the donation offer and voted unanimously to accept the property.

Citizens Comments: Chris Christensen asked if the Planning Commission rescinded that or gave a variance. Scott McPherson said the Planning Commission waived the required parking and rescinded that the parking not be combined. In this particular case the planning Commission viewed that the use of the parking lot would not be changed. Mr. Christensen asked what about overnight parking rules.

Board Deliberation: The board discussed parking of the apartment residents. Commissioner Gaylord inquired why the original donation

stipulation was there. Is there a reason the utility box could not have been placed there under Dr. Kirkby's ownership? If Dr. Kirkby had granted the easement, we could have still collected taxes and place the utility box on the property. Hugh added that the original requirement prohibited development of that property. Chris Christensen also added that he believed Bob Banner had a dedicated parking spot. Commissioner Neidhamer said these issues have been discussed at the Planning Commission. Mayor Pro-Tem Towne and Mayor Grunch think we should postpone this issue to the next meeting. Time is not of the essence and they would rather have a clearer picture. Commissioner Gaylord said he'd like to see some feedback from those who would be affected by the change to avoid an unintended consequence.

2013-05-066

Moved by Grunch
Second by Gaylord

MOTION

To postpone the decision of acceptance of property located behind the Johnson Oil gas station at 209 and 211 South Lake Street donated from Dr. Dennis Kirkby.

Ayes: 5

Nays: 0

Absent: 0

Motion carried

Consideration to accept the bid from All Aspects Forestry from Boyne City in the amount of \$9,500 to remove the marked trees and grind the stumps and remove all wood, brush and wood chips, utilizing approximately \$7,000 from the Cemetery Fund balance and authorize the City Manager to execute the documents

Cemetery Tree Removal

Clerk / Treasurer Grice discussed the trees in Maple Lawn Cemetery that need to be removed. It has been determined these trees are too large for our crews and equipment and will need to be removed by professional tree removers. All Aspects Forestry provided the lowest estimate. This is not an anticipated expenditure and funds will need to be taken from the Cemetery fund balance.

Citizens Comments: None

Staff Comments: None

Board Deliberation: Commissioner Neidhamer agrees. Commissioner Sansom said she found only 17 trees that need to be removed. The character of the cemetery is the large trees. Remove the obvious dead trees but doesn't see a rush to do it. Contact the families. Mayor Pro-Tem Towne said he looked at the trees and some should have come down a few years back.

2013-05-067

Moved by Towne
Second by Gaylord

MOTION

To accept the bid from All Aspects Forestry from Boyne City in the amount of \$9,500 to remove the marked trees and grind the stumps

and remove all wood, brush and wood chips, utilizing approximately \$7,000 from the Cemetery Fund balance and authorize the City Manager to execute the documents.

Ayes: 4

Nays: 1, Commissioner Sansom

Absent: 0

Motion carried

Consideration to accept the conditions set form in the draft permit from the MDEQ for the marina renovation of the fixed docks and shoppers dock and authorize the City Manager to execute the necessary documents.

Marina Renovation Permit

Harbormaster Barb Brooks discussed draft permit that has been issued by the DEQ. This permit addresses only the docks to be replaced, not an overall marina expansion or renovation. It requires approval from the City accepting the terms and conditions presented, once it is signed and returned, they will move forward with issuing an official permit for the project. After the permit process for this and the dredging are finalized, we will turn our attention back to the plans and permit for the overall expansion and renovation of the marina.

Staff Comments: None

Citizens Comments: None

Board Deliberation: All are in agreement.

2013-05-068

Moved by Towne

Second by Sansom

MOTION

To accept the conditions set form in the draft permit from the MDEQ for the marina renovation of the fixed docks and shoppers dock and authorize the City Manager to execute the necessary documents.

Ayes: 5

Nays: 0

Absent: 0

Motion carried

Commissioner Sansom has been following the Consumers Power tree trimmer/removers and is in some levels impressed, others not.

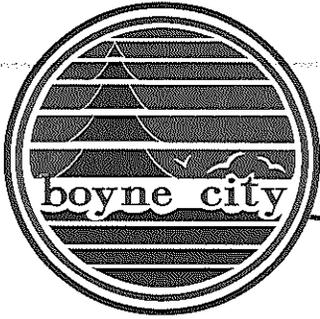
Good of the Order

Moved by Mayor Grunch, seconded by Mayor Pro-Tem Towne to adjourn the regular City Commission meeting of May 14, 2013 at 9:04 p.m.

ADJOURNMENT

Ron Grunch
Mayor

Cindy Grice
Clerk / Treasurer



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Founded 1856

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INTEROFFICE MEMORANDUM

TO: MICHAEL CAIN-CITY MANAGER *Mc*
FROM: MICHELE HEWITT-DEPUTY TREASURER *mt*
SUBJECT: BOYNE CITY HISTORICAL DISTRICT COMMISSION BOARD APPOINTMENT
DATE: 5/23/2013

Recommendation to appoint Kelly Martin to the Boyne City Historic District Commission board for a three year term ending November 30, 2016.



Date: May 28, 2013

To: Michael Cain, City Manager *MC*
and City Commissioners

From: Hugh Conklin, program manager *HC*

RE: Property donation

At the May 14 City Commission meeting regarding the property donation from Dr. Dennis Kirkby to the City, there was a question / concern raised about a possible agreement attorney Bob Banner had with Dr. Kirkby for the use of two parking spaces. The property is located behind S & K Marathon and involves 13 parking spaces. Neither Dr. Kirkby nor Mr. Banner was present at the meeting to address the question. As a result, the Commission postponed its vote until there was clarification.

Following the commission meeting, Dr. Kirkby initiated a meeting with Mr. Banner to discuss the use of the parking spaces and whether there was an agreement that would transfer with the property. A letter from Mr. Banner which explains the results of the meeting is included in your packet. Bottom line, Mr. Banner does not have an issue with the proposed donation.

If there any other additional questions, Dr. Kirkby is planning to attend Tuesday's meeting.

Recommendation

The City Commission authorize City Manager Michael Cain to take the necessary steps to accept property behind 209 and 211 South Lake St. as a donation from Dr. Dennis Kirkby.

LAW OFFICE OF
ROBERT A. BANNER

213 SOUTH LAKE STREET STE A • BOYNE CITY MICHIGAN 49712
TELEPHONE (231) 582-1710 • FAX (231) 582-1721

May 21, 2013

City of Boyne City
319 North Lake Street
Boyne City, MI 49712

RE: Dennis Kirkby
Transfer of Parking Lot Behind S & K Marathon to City of Boyne City

Greetings:

Dr. Kirkby has asked that I send this letter to the City regarding the transfer of his parking lot to the City. At the time Dr. Kirkby acquired the parking lot in question, we reached an agreement whereby I was given a license for two (2) parking spaces in the parking lot.

The question has arisen as to whether or not I would interfere with his transfer of the parking lot to the City because of my License Agreement with him. The purpose of this letter is to inform the City that I do not intend to challenge Dr. Kirkby's transfer of the parking lot to the City, nor do I intend to assert any legal action as a result of the License Agreement. I would appreciate the City's understanding that my office does occupy two parking spaces during normal business hours.

Should there be any questions about this letter or my intentions, please feel free to call.

Sincerely,

LAW OFFICE OF ROBERT A. BANNER



Robert A. Banner

/dr

Agenda Item 9D
(May 14, 2013
meeting)



Date: May 14, 2013

To: Michael Cain, City Manager
and City Commissioners

From: Hugh Conklin, program manager *HC*

RE: Property donation

Overview

As part of last year's project to move utility lines underground along Ray Street, there was a need to find a location for the new electric box at the west end of Ray Street. The desired location was behind the Johnson Oil gas station. The property is owned by Dr. Dennis Kirkby, who also owns the building at 209 and 211 S. Lake St. He purchased the property about two years ago from Phil Johnson.

A meeting was held with Dr. Kirkby to see if he would grant an easement to the City next to the sidewalk on the north end of the parking lot to locate the new electrical box. Not only did Dr. Kirkby agree to the easement but he offered to give to the city the entire piece of property running parallel along the alley, which has a total of 13 parking spaces.

This seemed like a win-win situation for the City and Dr. Kirkby. For the City this allowed it to move forward in placing the new utility box and it also created possible opportunities to expand public parking in the downtown area. For Dr. Kirkby, he felt the area was already being used as a public parking area, despite signs to the contrary, and he thought it was a fair exchange to give the City the property and in return he would save maintenance costs and property taxes. In addition, the City years ago was given a 15-foot easement through the property to create a wider alley off Ray Street.

The plan to donate the land to the city, however, hit a snag. In reviewing the January 1996 site plan approved when the 209 and 211 S. Lake St. building was built and the parking area established, a stipulation was discovered that prohibited it from being donated. The site plan was approved with the condition that the parcel proposed for the 17 parking spots behind the building be recorded with the Register of Deeds as one contiguous parcel to the main parcel at 207-209 South Lake St., meaning the two parcels were combined as one unless the Planning Commission amended the site plan.

A request to do that was presented to the Planning Commission at its November meeting and by a unanimous vote the commission amended the original site plan in the following way:

1. That the parking area not be combined with the main parcel at 209 South Lake St.
2. The 17 parking space requirement for the building be waived.

With this action taken, the Main Street Board considered Dr. Kirkby's offer to donate the property at a meeting earlier this year and unanimously voted to accept the property. The issue was also presented in concept to the City Commission earlier this year and the commission indicated its support. It is now returning to the Commission for its formal approval.

Recommendation

The City Commission allow City Manager Michael Cain to take the necessary steps to accept property behind 209 and 211 South Lake St. as a donation from Dr. Dennis Kirkby.

Main Street
1/10/2013
Minutes

that we should not continue to move forward.

Boyne City Mushroom Festival: The Mushroom Festival is expecting changes in leadership after this year's event. Key members of the committee have indicated they will be stepping down. Paul Nichols and Tony Williams were present to share their insights and discuss what role if any Main Street should play in the transition. Paul explained that there is a core of six people on the Executive Committee and five are leaving after this year. They would like to be able to train their replacements during their last year. The Lions Club will not be doing the competitive hunt any longer. However, the committee will continue with the guided and private hunts. Board discussion that this is a great festival and has been ongoing for many years. A suggestion of a community meeting to inform the citizens of the need for volunteers for this event and others. Board consensus that this would fall under the Organization Committee and agreed to forward to them with the suggestion they work with the Chamber to hold a community meeting.



Property donation: As part of the project to move utility lines underground along Ray Street, there was a need to find a location for the new electric box at the west end of Ray Street. The desired location was behind the Johnson Oil gas station. The property is owned by Dr. Dennis Kirkby, who also owns the building at 209 and 211 S. Lake Street. A meeting was held with Dr. Kirkby to see if he would grant an easement to the City next to the sidewalk on the north end of the parking lot to locate the electrical box. Dr. Kirkby not only agreed to the easement but he offered to give the city the entire piece of property running parallel along the alley, which has a total of 13 parking spaces, and also creates possible future opportunities to expand public parking in the downtown area. A request to the Planning Commission to amend the site plan which called for the two parcels to be combined into one was approved by unanimous vote at its November meeting as follows:

1. That the parking area not be combined with the main parcel at 209 South Lake St
2. The 17 parking space requirement for the building be waived.

Board discussion that this is a win-win situation for Main Street. Maybe in the future we could acquire the piece of property next to the carwash and combine the two for public parking.

Cortright moved O'Brien seconded PASSED UNANIMOUSLY that the Main Street Manager proceed and work with city staff to take the necessary steps to accept the property behind 209 and 211 South Lake St. as a donation from Dr. Dennis Kirkby.

Board member appointments: Six candidates applied for the two open seats on the Main Street Board. The seats are currently held by Kathy Anderson and Rob Swartz. All candidates were interviewed by organization committee members Bob Alger, Bob Carlile, Mike Cain and Michelle Cortright.

After discussion the Organization Committee voted to recommend Rob Swartz and Jim Jensen to four year terms on the board. **Carlile moved, O'Brien seconded PASSED UNANIMOUSLY** to recommend the City Commission approves the appointments of Rob Swartz and Jim Jensen to the Main Street board with terms expiring January 18, 2017.

Election of Officers: The Organization Committee voted to nominate Rob Swartz to serve as board Chair and Pat O'Brien to serve as Vice Chair beginning February 2013 through January 2014. **Carlile moved, Cortright seconded PASSED UNANIMOUSLY** to accept the nominations of the OR Committee.

MOTION

MOTION

MOTION

Good of the Order

Planning Commission

11/19/12

Minutes

abatement, so will use as screening only. A driver on M-75 is the only way to see the equipment. The zoning ordinance article talks about landscaping requirements for existing facility landscaping requirements, which is 30% of landscaping required for a new facility. The amount of 12 proposed trees exceeds that requirement, to put in more, serves no purpose to screen from M-75. Looking at MSU planting guidelines.

St. Dennis - It is going to take 60 - 70 years to get to a 35' diameter when you start with a 3' caliber tree.

Neidhamer - I have a concern with 618 feet and only 12 trees.

St. Dennis - In the previous plan the next door property owners, Car Quest, Carter's building were considered, not just the view corridor, I was thinking much larger buffer than 12 trees.

McPherson - Because this was a conditional use, with outside storage, landscaping for screening was apart of that consideration. Noise attenuation was mentioned. As Mike indicated, it was not going to do anything, so now is visual only.

MacKenzie - Would like to look at this with your proposal.

McCahan - Should have protection for the neighboring properties.

McPherson - What I am hearing is this is not quite accurate, and need more screening between the properties.

Neidhamer - I would like to see a complete proposal in 30 days at the next meeting, along with the emissions report.

New Business
209 S. Lake Street
Development plan
amendment

Planning Director McPherson reviewed the staff report that was included in the agenda packet. In 1996 the original site plan was approved for a commercial building with apartments above, with 17 parking spaces being adequate for the use, however, there is no way 17 cars could be parked there. In reality it is used for a public lot, even though it was established for the building and uses. With recent reconstruction in the area, Mr. Kirkby wanted to give the lot to the city for the purpose of underground utilities box placement. However, during the site plan approval, the parking lot area was tied to the business/apartment building. In order to accept the property and continue with the current use and future development of potential uses, a couple of actions are required; the first is to waive the parking requirement and to rescind the previous tying of the two properties together. In the CBD, Planning Commission does have the ability to waive parking taking in other parking factors, and building use. It is an alley, and there is a easement over a portion of that lot, already.

Cain - It will benefit the city for downtown area beautification projects that are under way and there are adjacent spaces available for parking.

****MOTION**

With no additional board discussion, **motion by Kozlowski, seconded by Crum** to approve the proposal as presented by:

1. Waiving the required 17 space parking requirement and
2. Rescind the requirement that the parking lot (parcel number 051-341-138-10) be combined with 209 S Lake Street (parcel number 051-055-063-00)

2012-11-19-7A

Roll Call:

Aye: Crum, Ellwanger, Frasz, Kozlowski, MacKenzie, McCahan, Neidhamer, St. Dennis.

Nay: None

Absent: Meeder

Motion Carries

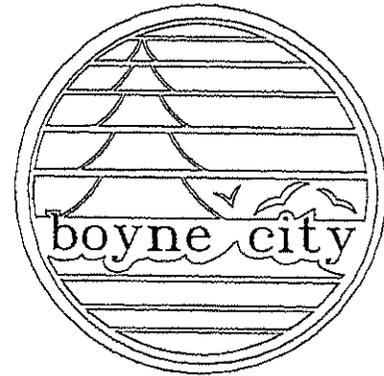
CITY OF BOYNE CITY

To: Chair Jane MacKenzie and fellow Planning Commissioners

From: Scott McPherson, Planning Director

Date: November 19, 2012

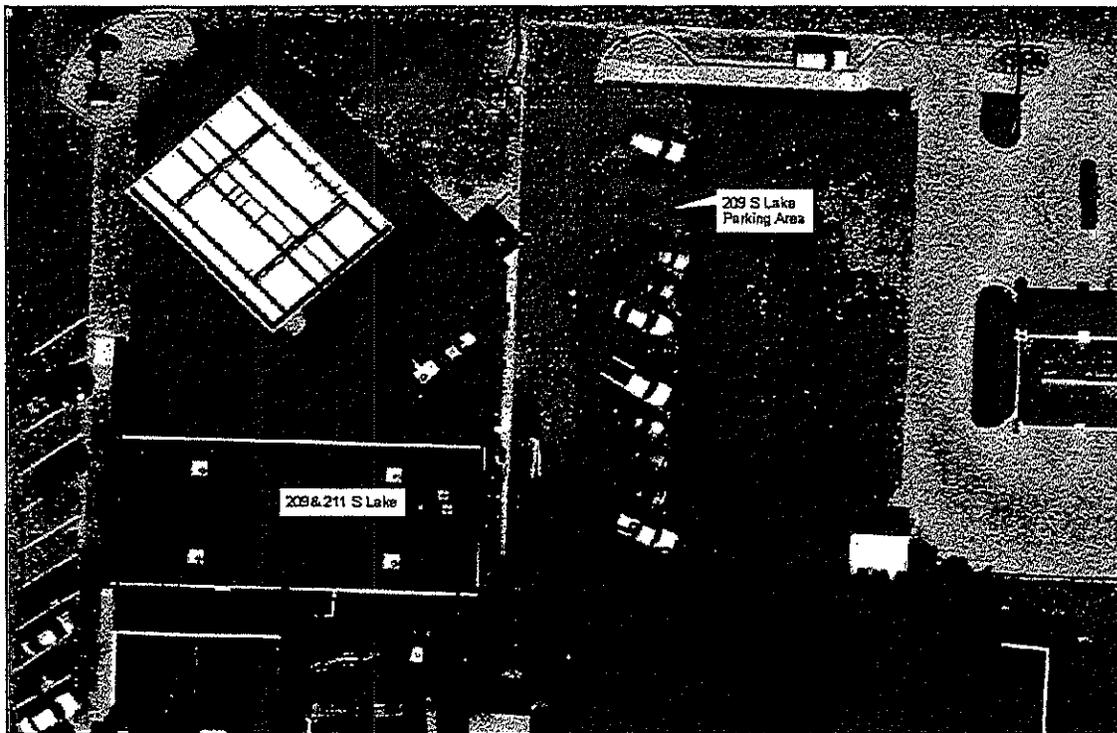
Subject: 209 S Lake Street



BACKGROUND

In 1996 the Boyne City Planning Commission approved a site plan for 209 S Lake Street for construction of a 42' x 96' 2 story commercial building. Boyne Valley Printing was located in the ground floor of the building and 4 apartments were constructed in the 2nd story of the building. Since that time the ground floor of the building has changed uses and it is now occupied by Dunagain's Antiques and Collectibles.

Prior to the site plan approval by the planning commission the zoning board of appeals made a determination that 17 parking spaces would be adequate for the use. Unfortunately I do not know rational used to make this determination. When looking at the site, it appears a maximum of 13 cars could be parked in the parking lot. It is my guess that a calculation was made using a parking space width of 8 feet was used to calculate the amount of available parking to arrive at the 17 spaces.



DISCUSSION

With the consent of Dr. Kirkby, the proposal for the site plan amendment is being initiated by the City Main Street Program. As outlined in the attached memo from Hugh Conklin, the proposed amendment can provide significant benefits to the property owner and the City and may provide future opportunities for the City to address downtown parking needs. While there may be concerns about eliminating parking requirement for this uses, it is the opinion of staff that very little will change if the City acquires the property. Currently the property is basically used as a public parking lot, and while the property is signed, it is not enforced. It is anticipated the parking lot will continue to be used in the same way if the City acquires the property. Some additional maintenance will be required if the property is obtained but this would be minimal additional obligations. The property is currently adjacent to an alley that is maintained and plowed by the City and the City has an easement over a portion of the parking lot which it has already agreed to maintain and plow.

Process

The proposed request would be an amendment to an approved development plan. The City of Boyne City Zoning ordinance provisions for requesting and approving amendments to an approved development plan are contained in section 19.65 Amendments to Approved Development Plans which is as follows:

Section 19.65 Amendments to Approved Development Plans.

The development plan, if approved, shall become part of the record of approval, and subsequent actions relating to the activity authorized shall be consistent with the approved development plan unless a change or addition conforming to this Ordinance receives the mutual agreement of the landowner and the Planning Commission. Incidental and minor variations of the approved development plan, with written approval of the Administrator, shall not invalidate prior development plan approval. Amendments to the approved final development plan may occur only under the following circumstances:

- A. An applicant or property owner who has been granted final development plan approval shall notify the Planning Director of any proposed amendment to such approved development plan.
- B. Minor changes may be approved by the Administrator upon certification in writing to the Planning Commission that the proposed revision does not alter the basic design, compliance with the standards of this Ordinance, nor any specified conditions of the plan as agreed upon by the Planning Commission. In considering such a determination, the Administrator shall consider the following to be a minor change:
 1. For residential buildings, the size of structures may be reduced, or increased by up to five percent (5%), provided that the overall density of units does not increase.
 2. Square footage of nonresidential buildings may be decreased or increased by up to five percent (5%) or one-thousand (1,000) square feet, whichever is smaller.
 3. Horizontal and/or vertical elevations may be altered by up to five percent (5%).
 4. Movement of a building or buildings by no more than ten (10) feet.
 5. Designated Areas not to be disturbed may be increased.
 6. Plantings approved in the final development plan landscape plan may be replaced by similar types and sizes of landscaping which provides a similar screening effect on a one-to-one or greater basis, provided they comply with the landscaping standards of this Ordinance, with approval of the Planning Director.

7. Improvements to site access or circulation, such as inclusion of deceleration lanes, boulevards, curbing, pedestrian/bicycle paths, etc., which conform to the requirements of this Ordinance.
 8. Changes of building materials to another of higher quality, as determined by the Planning Director.
 9. Changes in floor plans which do not alter the character of the use.
 10. Slight modification of sign placement or reduction of size.
 11. Relocation of sidewalks and/or waste receptacles.
 12. Internal rearrangement of parking lot which does not affect the number of parking spaces or alter access locations or design.
 13. Changes required or requested by the City for safety reasons shall be considered a minor change.
- C. Should the Planning Director determine that the requested modification to the approved final development plan is not minor; the Planning Commission shall be notified in writing that the development plan has been suspended, and, if construction has initiated, a stop work order shall be issued for the section of the project deemed not to be in compliance. Thereafter, the applicant may revise the development plan and submit to the Administrator for resubmission to the Planning Commission.
- D. Should the Planning Commission determine that the modifications to the final development plan significantly alter the intent of the preliminary development plan, a new submittal shall be required.
- E. Any deviation from the approved final development plan, except as authorized in this section, shall be considered a violation of this Ordinance and treated as such.

Process

If the Planning Commission determines that the proposed amendment does not significantly alter the intent of the approved plan, and is in conformance with the Ordinance standards the requested amendment may be approved through the mutual agreement of the landowner and the Planning Commission. To approve the proposal as presented the Planning Commission must take the following two actions:

1. Waive the required 17 space parking requirement
2. Rescind the requirement that the parking lot (parcel number 051-341-138-10) be combined with 209 S Lake Street (parcel number 051-055-063-00)

Options

The Planning Commission can agree to the changes presented and approve the amendment; the Planning Commission can decide not to agree to the changes as presented and not approve the amendment; or, modifications to the proposed amendment that the applicant and the Planning Commission mutually agree on can be made and the proposed amendment with modifications can be approved by the Planning Commission.



City of Boyne City

319 N. Lake Street

Boyne City, Michigan 49712

Phone 616-582-656

FAX 616-582-367

Prepared: 2-1-96

Approved: _____

MEETING OF JANUARY 15, 1996

MINUTES OF THE BOYNE CITY PLANNING COMMISSION MEETING
DULY CALLED AND HELD ON MONDAY, 15 JANUARY 1996, AT 5:00
P.M. IN THE COMMISSION CHAMBERS OF CITY HALL.

CALL TO ORDER

Vice Chair Knurick called the meeting to order at 5:00 P.M.

ROLL CALL

Present: Chair Pat Kubesh (arrived at 5:05), Jim Knurick, Mark Kowalske, Jack McLeod, Alison Mellon, Tom Neidhamer, Cindi Place, Joe St.Dennis, and Todd Wright.

Staff

City Manager W. Randolph Frykberg, City Attorney Timothy Arner, City Clerk Sue Hobbs, Commissioners Thelma Behling, William Grimm, Sandra Stanley, and recording secretary Josette Lory.

MEETING ATTENDANCE

There were approximately 20 people in attendance.

APPROVAL OF MINUTES

Neidhamer moved, Kowalske seconded a motion to approve the minutes of the Boyne City Planning Commission meeting held 11 December 1995 as presented.

At the request of petitioners, and with no objection from Safe Lake I, the public hearing items were addressed first.

209 SOUTH LAKE SITE PLAN - JOHNSON

Site plan review requested from Beverly and Phil Johnson, 207 South Lake Street, for construction of a 42'x 96' commercial building on the vacant lot at 209 South Lake Street. The existing Boyne Valley Printing facility will be relocated to the proposed site, with the existing structure being sold for commercial use. The interior layout of the proposed structure will be similar to the existing facility with consideration of a center wall enabling half of the lower floor to be leased out for retail use. It appears the site plan meets all City zoning requirements.

On 9 November 1995 the Zoning Board of Appeals interpreted that seventeen (17) parking spaces is adequate parking for the proposed construction at 209 South Lake Street, approving a parking variance to accommodate the relocation of existing business. Should apartments be built, two parking spaces per apartment will need to be designated.

Chair Kubesh opened the public hearing at 5:05 P.M.

Phil Johnson noted the proposed structure will conform to the City's Victorian style. The rear of the building may be colored block (alley side) and the side adjacent to the smaller building (southside) will either be vinyl or block.

No public comment.

Public hearing closed at 5:07 P.M.

SITE PLAN REVIEW

Wright asked if the petitioner had any plans for the upstairs portion of the proposed structure. Johnson noted with the ZBA parking variance he would be able to have up to three apartments in the upstairs.

The rear parking area will be maintained by the property owner.

No dumpster is planned, weekly pick up of bagged refuse.

Dust free parking is required.

Vinyl siding to comply with Victorian theme.

Plan to use same signage.

Projected move in date of July 1996.

The board discussed the need to have the rear parking area connected to the main lot (209 South Lake Street). The parcel proposed for parking should be recorded with the Register of Deeds as one contiguous parcel to the main lot, and the area will be maintained for parking only. Johnson assured the board he would take care of this in July when the construction is complete.

**

Knurick moved, Wright seconded approval of the site plan as presented with a condition for the rear parking area (across from alley) to be combined and recorded as one parcel with the primary building at 209 South Lake Street within a one year time frame.

ROLL CALL

Aye: Kubesh, Knurick, Kowalske, McLeod, Mellon, Neidhamer, Place, St. Dennis, Wright.

Nay: None.

Abstain: None.

Absent: None.

MOTION CARRIED.

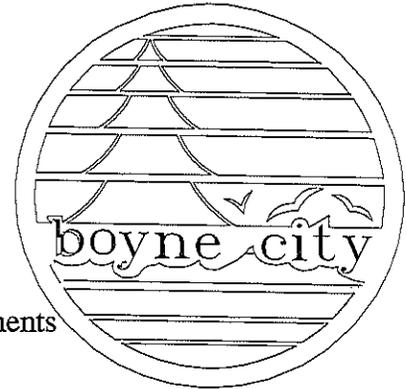
**900 FRONT STREET
HARBORAGE
RENAISSANCE
COMPANY**

Site plan review to amend a previously approved site plan for Harborage Renaissance Company, for one single family home replacing a previously approved four unit building in the 900 block of Front Street, lying between said street and Lake Charievoix.

The petitioner requests consideration of amending the 20 June 1994 site plan for the four unit building. The petitioner agrees this single family dwelling will meet the existing requirements placed on the Harborage Shores site plan approved 17 July 1995 for six single family homes.

CITY OF BOYNE CITY

To: Michael Cain, City Manager *Mc*
From: Scott McPherson, Planning Director *SM*
Date: May 28, 2013
Subject: Proposed Outdoor Sidewalk Café Ordinance Amendments



Background

Currently the Boyne City zoning ordinance allows outdoor eating areas that do not serve alcohol on the public sidewalk in the Central Business District. This ordinance provision has been in place since the ordinance rewrite in 2001. An annual \$10 permit is required and in the spring of each year the Planning Department mails permit application forms that contain all of the ordinance requirements to the restaurants in the Central Business District.

Each year several establishments obtain permits and offer outdoor eating areas on the public sidewalk and the planning department is unaware of any specific complaints in regards to their operation. Last summer Magnum Hospitality submitted an application to the City that specifically requested alcohol service on the public sidewalk at Café Santé. Since the ordinance specifically prohibits alcohol the application could not be approved. Subsequently, Magnum Hospitality submitted a request for the City to consider changing the existing ordinance to also allow the serving of alcohol in outdoor eating areas which are located on the public sidewalk.

At the April 15, 2013 Planning Commission meeting the Commission considered the request from Magnum Hospitality. After review and discussion about the proposal and possible ordinance changes the Planning Commission directed staff to develop an amendment to the zoning ordinance to eliminate the provisions for outdoor café's on the public sidewalk and develop a new stand alone ordinance to regulate outdoor sidewalk cafés that would include a provision that would allow alcohol service. The reason for this approach is due to the fact that zoning ordinances confer grandfathering rights. Uses that are established lawfully under a zoning ordinance can continue as a legal use indefinitely even if the ordinance is changed or repealed at a later date. This is not the case for stand alone police power ordinances as these types of ordinances do not have grandfathering rights.

The ordinance as proposed allows for the service of alcohol in sidewalk cafés. If the Commission does not wish to expand alcohol service to sidewalk cafés, staff would recommend the Commission adopt the proposed ordinance amendments but delete the provision that allows for alcohol.

Process

In accordance with the Michigan Zoning Enabling Act and the Boyne City Zoning Ordinance Section 2.40 Amendment Procedures, a public hearing was held by the Planning Commission on May 20, 2013, and after reviewing the Amendment Criteria as required by the Boyne City

Zoning Ordinance Section 2.50 (A), the Planning Commission recommended approval of the proposed the proposed zoning ordinance amendment. The Planning Commission also held a public hearing on the proposed Sidewalk Café Ordinance and recommended adoption of the ordinance. The proposed amendment and ordinance are now being presented to the City Commission for a first reading. As required by the Boyne City Charter, ordinances cannot be adopted until at least one month after the meeting it is introduced. The next available City Commission meeting that meets this requirement would be July 9, 2013. The City Commission has the following options:

1. Schedule a second reading for July 9th 2013 or later.
2. Send the proposed ordinances back to the Planning Commission for further consideration.
3. Take no action.

Recommendation

Review proposed ordinances and schedule a second reading for July 9th 2013.

CITY OF BOYNE CITY
COUNTY OF CHARLEVOIX

AN AMENDMENT TO THE BOYNE CITY ZONING ORDINANCE (A-80)

THE CITY OF BOYNE CITY HEREBY ORDAINS:

Section 1. Purpose.

The purpose of this ordinance is to amend Article X Section 10.20(Q) to eliminate zoning ordinance provisions that regulate outdoor cafés on public sidewalks.

Section 2. Amendment of Section 10.20(Q) Outdoor cafés of Article X Central Business District.

Section 10.20 (Q) Outdoor Cafés is amended to read as follows: (~~strikethrough~~ indicates words to be deleted and *italics* indicates words to be added)

- Q. Outdoor cafés, outdoor eating areas, carry-out, and open front restaurants, (~~without alcoholic beverages~~) subject to the following site design standards:
1. Outdoor cafés may be permitted *within the boundaries of a parcel or lot* ~~on a public right of way, on a building roof top, or as part of a patio or deck, or within the boundaries of a parcel or lot.~~ Those ~~proposed for use of the public right of way~~ *must secure an annual permit from the City for temporary use of the right of way.* However, no use of the right of way will be permitted on July 4th.
 2. ~~A minimum of four (4) feet of public sidewalk along the curb and leading to the entrance to the establishment must be maintained free of tables and other encumbrances. The pedestrian area shall also be free from benches, waste receptacles, fire hydrants, and similar structure. If the sidewalk is not wide enough to allow for a four (4) foot wide clearance for circulation, the outdoor café shall not be permitted on a public sidewalk.~~
 3. ~~Pedestrian circulation and access to building entrances shall not be impaired. A boundary (maximum encroachment width and length) into the public sidewalk shall be established with an accessible aisle being maintained between this line and the curb, in accordance with the provisions of all state and federal regulations.~~
 - 4-2. The outdoor café must be kept clean, litter-free, and with a well-kept appearance within and immediately adjacent to the area of the tables and chairs. Additional outdoor waste receptacles may be required. ~~Written procedures for cleaning and waste containment and removal responsibilities must be included with all applications and approved by the City staff.~~
 - 5-3. Tables, chairs, planters, waste receptacles, and other elements of street furniture shall be compatible with the architectural character of the adjacent buildings. If table umbrellas will be used, they shall complement building colors. ~~When not in use, all tables, chairs, umbrellas, and other furniture and fixtures must be stored inside the building or in an alternate location other than a public sidewalk.~~
 - 6-4. Other additional signs are not permitted beyond those permitted for the existing restaurant.
 7. ~~Such areas are permitted seasonally between April 1 and October 31, except July 4th. The hours of operation for the outdoor café shall be established and noted with the application.~~

- ~~8. Preparation of food and beverages may be prohibited by the Planning Commission in the outdoor café.~~
- ~~9. The outdoor café or its operation shall not damage, stain, or discolor any part of the sidewalk or public right of way.~~
- ~~10. The outdoor café shall comply with any policies and/or regulations adopted by the City Commission for private use of public right of way. Liability issues for use of the public sidewalk may be addressed and reviewed by the City Attorney.~~
- ~~11. The outdoor café shall provide evidence of insurance coverage naming the City as an additional insured party in an amount acceptable to the City.~~

Section 3. Conflicting Standards.

If any of the standards set forth in this amendment conflict with any other standards of previous or future ordinances or amendments, the stricter standards shall apply.

Section 4. Repeal; Savings Clause.

All ordinances, resolutions, or orders, or parts thereof, in conflict with the provisions of this ordinance are, to the extent of such conflict, repealed.

Section 5. Severability

The various parts, sections and clauses of this Ordinance are hereby declared to be severable. If any part, sentence, paragraph, section or clause is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of the Ordinance shall not be affected thereby.

Section 6. Effective Date

This Ordinance shall become effective fifteen (15) days from its enactment.

Public Hearing May 20, 2.13

First Reading:

Second reading:

Enacted:

Effective:

CITY OF BOYNE CITY
COUNTY OF CHARLEVOIX

AN AMENDMENT TO THE BOYNE CITY CODE OF ORDINANCES TO REGULATE THE LICENSING AND OPERATION OF OUTDOOR SIDEWALK CAFÉS ON PUBLIC SIDEWALKS AND TO PRESCRIBE PROCEDURES THEREFOR, AND TO PROVIDE PENALTIES FOR VIOLATIONS OF THE ORDINANCE.

NOW THEREFORE, THE CITY OF BOYNE CITY ORDAINS:

Section 1. Article VI Outdoor Sidewalk Cafés of Chapter 54 Street Sidewalks and Other Public Places of Boyne City Code of Ordinances shall be adopted as follows:

Article VI Outdoor Sidewalk Cafés

Sec 54-170. Outdoor Sidewalk Café.

No person or entity shall operate an Outdoor Sidewalk Café without an Outdoor Sidewalk Café license. This license shall be required in addition to any other license, permit or approval required by the city, county or state agencies for operation of a restaurant, bar or similar establishment. The license shall be valid for the calendar year of the date of issuance.

- (a) Definition: Outdoor Sidewalk Café – A type of outdoor café consisting of an area set aside for the customers of a restaurant, bar or similar establishment on a public sidewalk or other public property other than a public parking space.

Sec 54-171 Outdoor Sidewalk Café license.

An Outdoor Sidewalk Café license may be issued upon approval of the City Manager or designee with a finding that the applicant meets the requirements below:

- (a) Outdoor Sidewalk Café hours shall be between 800 a.m. and 11:00 p.m., from April 1 to November 1.
- (b) A minimum of four (4) feet of public sidewalk shall be maintained free of tables and other encumbrances. The pedestrian area shall also be free from benches, waste receptacles, fire hydrants, and similar structure. If the sidewalk is not wide enough to allow for a four (4) foot wide clearance for circulation, the outdoor sidewalk café shall not be permitted on a public sidewalk.
- (c) Furnishings of an Outdoor Sidewalk Café shall all be readily removable, including railings and planters.
- (d) Furnishing materials and finishes shall be durable, smooth and easily cleanable and shall be kept in sound condition and good repair. Tables, chairs, planters, waste receptacles, and other elements of street furniture shall be compatible with the architectural character of the adjacent buildings. If table umbrellas will be used, they shall complement building colors and may not include signage of any type.

- (e) Outdoor Sidewalk Cafés may only be located in the sidewalk that is adjacent to the business they are associated and may not extend in front of any other business or residence.
- (f) Outdoor Sidewalk Cafés may not interfere with any public service facility such as a bench, waste receptacle, bike rack or mailbox.
- (g) The Outdoor Sidewalk Café must be kept clean, litter-free, and with a well-kept appearance within and immediately adjacent to the area of the tables and chairs.
- (h) The Outdoor Sidewalk Café or its operation shall not damage, stain, or discolor any part of the sidewalk or public right-of-way.
- (i) If alcohol is to be served in conjunction with the proposed Outdoor Sidewalk Café, delineation of the service area with a physical barrier in conformance with the design criteria of the City and acceptable to the state liquor control commission must be utilized.

Sec 54-172. Application Requirements for Outdoor Sidewalk Cafés License.

An application for any Outdoor Sidewalk Café License shall include:

- (a) A completed application form provided by the City.
- (b) A plot plan drawn to scale showing the proposed arrangement of the chairs, tables, railings and any other equipment proposed for the Outdoor Sidewalk Café.
- (c) A narrative explaining the proposed operation of the café, including hours of operation.
- (d) Samples or pictures showing the materials and colors of all tables, chairs, railings planters, waste receptacles or any other items proposed for the Outdoor Sidewalk Café.
- (e) The Outdoor Sidewalk Café shall provide evidence of insurance coverage naming the City as an additional insured party in an amount acceptable to the City.
- (f) Before granting a permit for an Outdoor Sidewalk Café, a notice shall be mailed by regular mail to adjacent property owners or occupants, giving such persons notice of the proposed use and given an opportunity to provide comments concerning the proposed operation.
- (g) The fee as established by the City Commission.

Sec 54-173. Revocation of an Outdoor Sidewalk Café's license.

The City Manager may revoke any Outdoor Sidewalk Café license for failure of the licensee to comply with the conditions of this ordinance or their license or if the operation for any reason creates a nuisance or hazard. The City Commission on its own motion may, without cause, revoke an Outside Sidewalk Café permit upon 30 days' written notice to the permittee.

Sec 54-174. Penalty.

Any person who violates any of the provisions of this section are responsible for a municipal civil infraction.

Section 2. Conflicting Standards.

If any of the standards set forth in this amendment conflict with any other standards of previous or future ordinances or amendments, the stricter standards shall apply.

Section 3. Repeal; Savings Clause.

All ordinances, resolutions, or orders, or parts thereof, in conflict with the provisions of this ordinance are, to the extent of such conflict, repealed.

Section 4. Severability

The various parts, sections and clauses of this Ordinance are hereby declared to be severable. If any part, sentence, paragraph, section or clause is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of the Ordinance shall not be affected thereby.

Section 5. Effective Date

This Ordinance shall become effective fifteen (15) days from its enactment.



Sidewalk Cafe Discussion
See Page 2

Approved: _____

Meeting of
May 2, 2013

MINUTES OF THE BOYNE CITY MAIN STREET BOARD REGULAR MEETING HELD ON THURSDAY, MAY 2, 2013 AT 8:30 A.M. IN THE COMMISSION CHAMBERS AT CITY HALL, 319 NORTH LAKE STREET

Call to Order

Chair Swartz called the meeting to order at 8:30 a.m.

Roll Call

Present: Jodie Adams, Mike Cain Bob Carlile, Jim Jensen
Larry Lenhart, Pat O'Brien, and Rob Swartz

Meeting
Attendance

Absent: Michelle Cortright and Robin Berry Williams (arrived 8:32)

City Staff: Main Street Manager Hugh Conklin, Planning/Zoning Administrator
Scott McPherson, Assistant Planner Leslie Meyers and recording
secretary Karen Seeley

Public: There were two people in attendance

Excused Absence
MOTION

Cain moved Adams second **PASSED UNANIMOUSLY** to excuse Michelle Cortright from today's meeting.

Approval of Minutes
MOTION

Carlile moved, Adams second **PASSED UNANIMOUSLY** to approve the April 4, 2013 regular meeting minutes

Citizens Comments

None

Correspondence

None

Main Street Committee
Reports

Jim Jensen gave an overview of the Small Town Rural Conference he attended at Crystal Mountain and Robin Williams Berry reported on the National Main Street convention that she attended in New Orleans.

In addition to the committee reports included in the agenda packet Main Street Manager Conklin reported on a few items:

- Reminded the board of Buff of Boyne, May 4th, 9 a.m. Sunset Park.
- The SOBO Arts festival was successful in its application to the Charlevoix County Community Foundation for a \$1,900 grant to fund the performance on June 28 of the Bay Area Big Band.
- Shirley Matz found a new location for her barbershop, as of April 30 she is located at 211 ½ South Lake Street, formerly the home to Meg McClorey Pottery.
- Jim Howell has moved his appraisal business to Main Street, next to Sweetgrass Framing.

Main Street Manager Conklin reported on:

Manager's Report

- There were no viable candidates for the Sunset Park Intern program
- The Business expo was a huge success and congratulations to Chamber Executive Director Jim Bauman.
- Challenge Mountain surveyed their membership and has agreed to enter into a one year contract with Boyne Thunder. **Cain moved Adams seconded PASSED UNANIMOUSLY** to approve Boyne Thunder entering into a one year contract with Challenge Mountain for 10% of proceeds.
- A meeting with theatre owner Paul Mitchell was held April 12 and was very productive. The Downtown Planning grant for the theatre was submitted to the MEDC on Friday. A decision is expected by the end of May with approval by the Michigan Strategic Fund in June

Unfinished Business

Bike rack designs:

The board reviewed some renderings of different art designs for new bike racks in the downtown. Main Street Manager Conklin reported that the Design Committee discussed the RFP's that were originally submitted. There were issues with the RFP identifying the quantity and maximum price.

The committee reached a consensus that detailed design of the racks is needed as the original drawings were conceptual only. The completed drawings are the renderings the board is reviewing today. The board liked the concept submitted by the Wood Shop. Board discussions if four were enough? Four would get us started and give us something to build on with possible sponsorships in the future. These would be unique to the community, a piece of art that is also functional. **Adams moved Cain seconded PASSED UNANIMOUSLY** to support the concept, to obtain bids of the artistic rendering of bicycle racks and send the designs out for bids once they are finalized and given the blessing of the Planning and City Commissions.

MOTION

Sidewalk Cafe →

Sidewalk Café alcohol service:

At the April meeting, the board had discussion about a change in city ordinance to allow alcohol to be served at sidewalk café, in downtown Boyne City. The board was in support of the change but wanted more details in regards to how it would be managed. They received a draft of a proposed new ordinance to regulate sidewalk cafes by City Planner Scott McPherson. The proposed ordinance as written would allow a sidewalk café to obtain an annual permit if they meet the criteria. The permit would be required for all sidewalk cafes not just those serving alcohol. McPherson reviewed the ordinance with the board and stated the one change recommended would be the deletion of the July 4th restriction on sidewalk cafes. The board concurs that it should be allowed on the 4th as well. A public hearing has been scheduled for the next Planning Commission meeting, Monday, May 20th at 5 p.m. A public hearing is required to consider any ordinance change. The planning commission is generally supportive of the alcohol aspect, but did have considerable discussion on the requirements for a clear zone on the sidewalk (4 foot). Board question if we would need it to come back to this board after the Public Hearing. It could always come back. **Adams moved Williams seconded PASSED UNANIMOUSLY** that the Main Street Board recommends to the Planning Commission that it support the proposed new ordinance regulating sidewalk cafes.

MOTION

Stroll the Street Hayrides:

At the April meeting there were various questions/ concerns and a follow-up meeting was held with Becky Kuebler of Boyne Valley Tours and Services to discuss them. The board reviewed the list from Boyne Valley Equine to address their concerns. City Manager Cain said that he is in support and we should give them some leeway. The board feels they should have an immediate "out" clause in the contract. They would need to add the City of Boyne City and Main Street as additional insured on

MOTION

their policy. There has been some talk about them purchasing a buggy and using that instead of the wagon. The allowable route would be different for a horse and buggy. **Cain moved Lenhart seconded PASSED UNANIMOUSLY** to support the concept of horse drawn rides through downtown, with the route and schedule to run through the Main Street Manager. Their insurance will need to have the City of Boyne City and Main Street added as insured and the contract can be withdrawn immediately if problems arise by the Main Street Manager or the Police Department.

MOTION

Use of the Main Street Logo:

The board reviewed a draft of a user agreement to allow the Boyne City Main Street logo and tagline to be used by businesses. All designs would have to be approved by the Main Street Manager and if approved a use agreement between Boyne City Main Street and the vendor/artist/business is required. Board discussion regarding fees. Let's try it for the first year with no fees and revisit next year. **Cain moved Carlile seconded PASSED UNANIMOUSLY** to move forward with the agreement and add a bullet to include a "opt out" clause in case they are not following the agreement.

Michigan Main Street Agreement:

Boyne City Main Street's Master-Level Agreement with Michigan Main Street is up for renewal. The contract is for two years and outlines the services we receive from the state program and the expectations the state program has with Boyne City Main Street. The new agreement has been revised to include more comprehensive insurance requirement for the community, and Main Street Manager Conklin has reviewed the changes with Paul Olsen, the city's insurance representative. He will add Michigan Main Street as an additional insured. **Cain moved O'Brien seconded PASSED UNANIMOUSLY** the Main Street board approves the Michigan Main Street Program Community Requirements and Expectations Agreement as proposed. **10th Anniversary Celebration Update:** The committee has been very active, the 10th anniversary logo was designed by Kecia Freed and we will be ordering twelve banners with the logo for the poles downtown. The celebration will take place at Old City Park with a program from 6-8 pm. There will be a memorial tree planting of a white oak and the Chamber has sent out a survey to compile a top ten list of what people love about Main Street.

New Business

MOTION

Graphic design services-Kecia Freed:

Kecia's current contract expired in April 2013 and the board is being asked to again accept her design services for the 12-month period between May 2013 and April 2014 in the amount of \$3,600. **Cain moved Adams seconded PASSED UNANIMOUSLY** to accept the service agreement with Kecia Freed of Kecia Freed design.

MOTION

- The Thirsty Goat will reopen on May 16th.
- There is now another option for internet in town with the addition of MySpot.net
- The House at 417 Pearl Street is up for tax foreclosure.

GOOD OF THE ORDER

Cain moved Williams seconded PASSED UNANIMOUSLY to adjourn the May 2, 2013 meeting of the Boyne City Main Street Board at 10:28 am.

ADJOURNMENT MOTION

Karen Seeley, Recording Secretary



City of Boyne City

MEMO

Agenda Item 9B

Date: May 24, 2013
To: Mayor Grunch and the Boyne City City Commission
From: Michael Cain, City Manager *Mc*
Subject: Lower Lake Street Storm drain outfall

For several years the City has been receiving complaints regarding the Lower Lake Street storm drain outfall, specifically that when the water comes out of the pipe it veers towards the north and the adjacent property. Despite our repeated efforts to redirect the water it usually chooses to find its own way after some major rain event. This issue has become even more apparent as the lake levels have receded. It appears to me that the end of the existing pipe was at one time at or near the then lake level.

Last fall we requested C2AE look at this issue and see what options they could provide. A copy of their analysis is attached for your review. This spring I also forwarded their analysis on to the Tip of the Mitt Watershed to see if they had any suggestions. Their suggestion is attached along with further feedback from Larry Fox of C2AE.

This outlet serves and collects storm water from a large area at the north end of town including much of the water from Court Street and Hawkridge areas. Road improvements to that area (i.e. paving) could lead to more water volume reaching this outlet.

This area is used as an informal beach swimming area which, in my mind, limits our ability to install simple rock outfalls like we have done at the end of Charlevoix and John Street drains in recent years.

Mr. Fox will be present to review their analysis and discuss options with us.

I would encourage City Commissioners to visit the site prior to the meeting if possible.

RECOMMENDATION: That the City Commission review the materials presented here and at the meeting and consider providing direction to staff as to how to proceed further.

Options:

- 1) Postpone the matter for further consideration and/or information.
- 2) Other option(s) as determined by the City Commission.



123 West Main Street
Suite 200
Gaylord, MI 49735
P: 989.732.8131
F: 989.732.2714
www.c2ae.com

Memo

To: Michael Cain, City Manager
Andy Kovolski, Superintendent of Maintenance and Safety

From: Larry M. Fox (LMF)

Date: October 26, 2012

Re: Boyne City Lower Lake Street Storm Discharge

Issues:

The existing road end/beach area suffers from wash outs during periodic high intensity rain events. There is an existing rock channel that overflows and creates significant erosion, carrying sediment to the lake as well as creating a mess of the beach area. The required clean up and reconstruction of the area after these rain events creates a waste of the City's time and resources.

Causes:

The drainage area for this storm sewer outlet is fairly large and the volume and velocity of water from the existing storm sewers is high during these high intensity rainfall events. Planned improvements to roads and storm sewers in this drainage district will only increase the flows in the future.

The discharge pipe and exiting flow direction is not in alignment with the receiving channel, causing erosion issues and eventual failure of the channel.

The discharge channel appears to be undersized for the amount of flow it is expected to carry.

Additional Considerations:

The Lower Lake Street road end is a popular lake access/beach area. The City would like to minimize any construction impacts that would limit the continued use of this area.

The existing 24" diameter storm sewer is undersized for future development. If any improvements are constructed, consideration should be given to increasing the size of the pipe to a 30" to 36" diameter.

The City would like to consider the installation of a storm water treatment unit on this storm outfall. This is unrelated to the erosion issue.

The outlet of the existing 24" diameter storm sewer is already below the high water level of Lake Charlevoix. Any significant work below the high water level will likely require a Joint ACE/MDEQ permit.

Potential Solutions (refer to attached exhibits):

1. Install drainage structures and combine the 12" and 24" storm sewers into one 36" diameter pipe. Provide a 36" storm outlet with a pipe grate near the location of the existing outlet. Align the outlet with the proposed channel. Construct a new lined channel from the outlet ending to the lakeshore. Possible channel lining treatments include heavy rip rap over a geotextile liner, use of a channel liner system like the Presto Georunner Flow Protection mats or Geoweb Channel Protection system. The channel cross sectional flow area needs to be a minimum of approximately 8 square feet. The cost of this alternative would be in the range of \$10 - \$12,000.

This option may or may not require a Joint permit. If needed it would likely fall under the Minor permit category.

2. Install drainage structures and combine the 12" and 24" storm sewers into one 36" diameter pipe. Extend the 36" storm pipe to the lakeshore and construct a pipe ending with a grate. Place a small area of heavy rip rap at the pipe ending. Utilize concrete or ductile iron pipe to resist wave and ice forces. Berm/mound earth up over the top of the pipe to cover the pipe. The cost of this alternative would be in the range of \$12 - \$15,000.

This option would require a Joint permit. It may or may not fall under the Minor permit category.

3. Install drainage structures and combine the 12" and 24" storm sewers into one 36" diameter pipe. Construct a deeper storm sewer to outlet out into the lake bottom at an approximate depth of 8' below the water surface (guesstimated to be approximately 250 feet from the shore). Place a grate over the pipe ending. The cost of this alternative would be in the range of \$60 - \$75,000.

This option would require a Joint permit. It would not fall under the Minor permit category.

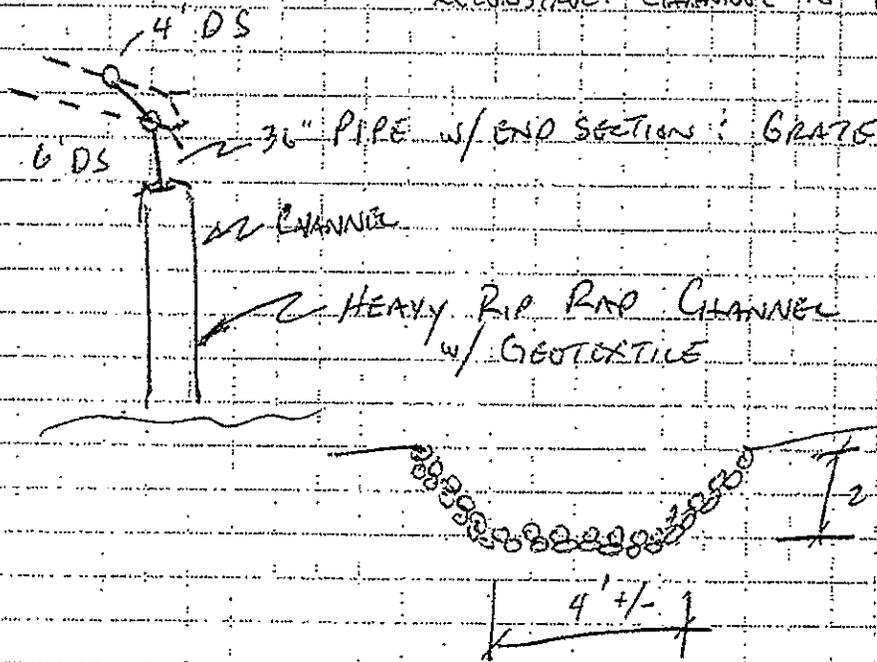
Stormwater Treatment Unit

In addition to all of the above options, the City may wish to construct a storm water treatment unit (STU) to remove oils, sediment and debris from the storm discharge. The stormwater treatment unit would be sized to provide treatment of the "first flush" of a storm event, which carries the majority of the undesirable materials. The STU sizing would be approximately 11 to 23 cubic feet per second. The STU would be located in the City right of way upstream of the discharge point and upstream of the lake's high water level. A Joint permit would not be required. The approximate cost range for the STU construction would be \$50 - \$80,000 over and above the cost of any of the above options.



OPTION 1

COMBINE STM
 REUSE OUTLET
 RECONSTRUCT CHANNEL TO LWS



* ALTERNATE CHANNEL CONSTRUCTION

PRESTO GEORUNNER FLOW PROTECTION MATS
 OVER TRM

OR

PRESTO GEOWEB w/ STONE INFILL

ITEMS

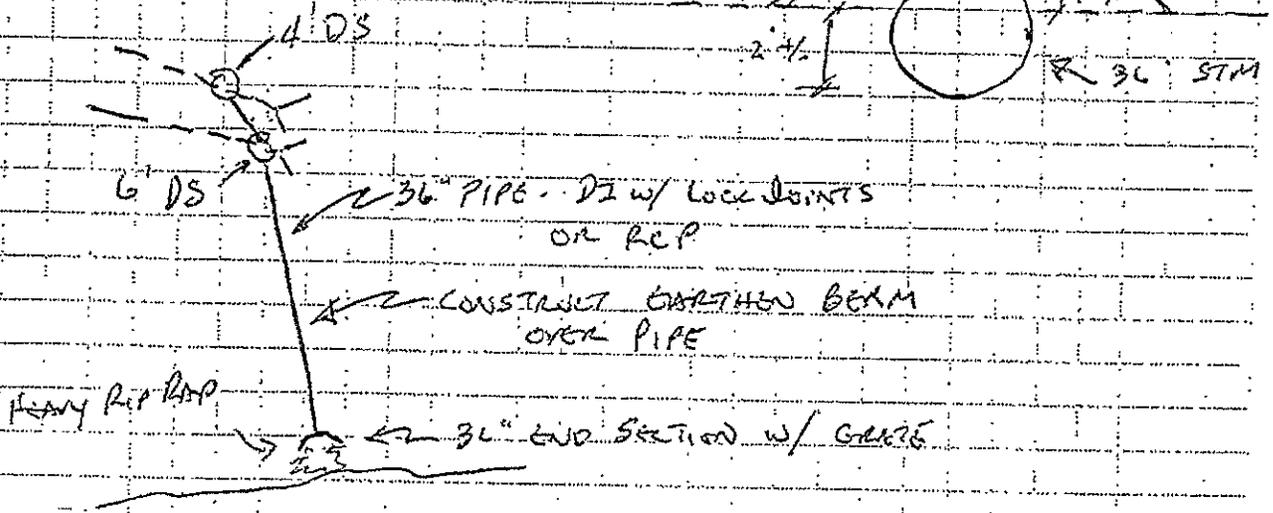
- 4' DS
- 6' DS
- 12" STM - 7 LFT
- 36" RCP STM - 8 LFT
- 36" END SECTION w/ GRATE

40 STD DRAINAGE CHANNEL
 RESTORATION



OPTION 2

COMBINED STM
PIPE TO LAKE EDGE



PIPE ALTERNATES

36" ϕ RCP

36" ϕ D.I. w/ LOCKING JOINTS

29" X 45" RCP ELLIPTICAL PIPE

2 PIPE EQUIV. ϕ 27" ϕ

ITEMS

4' DS

6' DS

12" STM - 7 LFT

36" STM - 40 LFT

36" END SECTION w/ GATE

CONCRETE BEAM

HEAVY RIP RAP - 10 CYD

c2ae



JOB NUMBER

SHEET

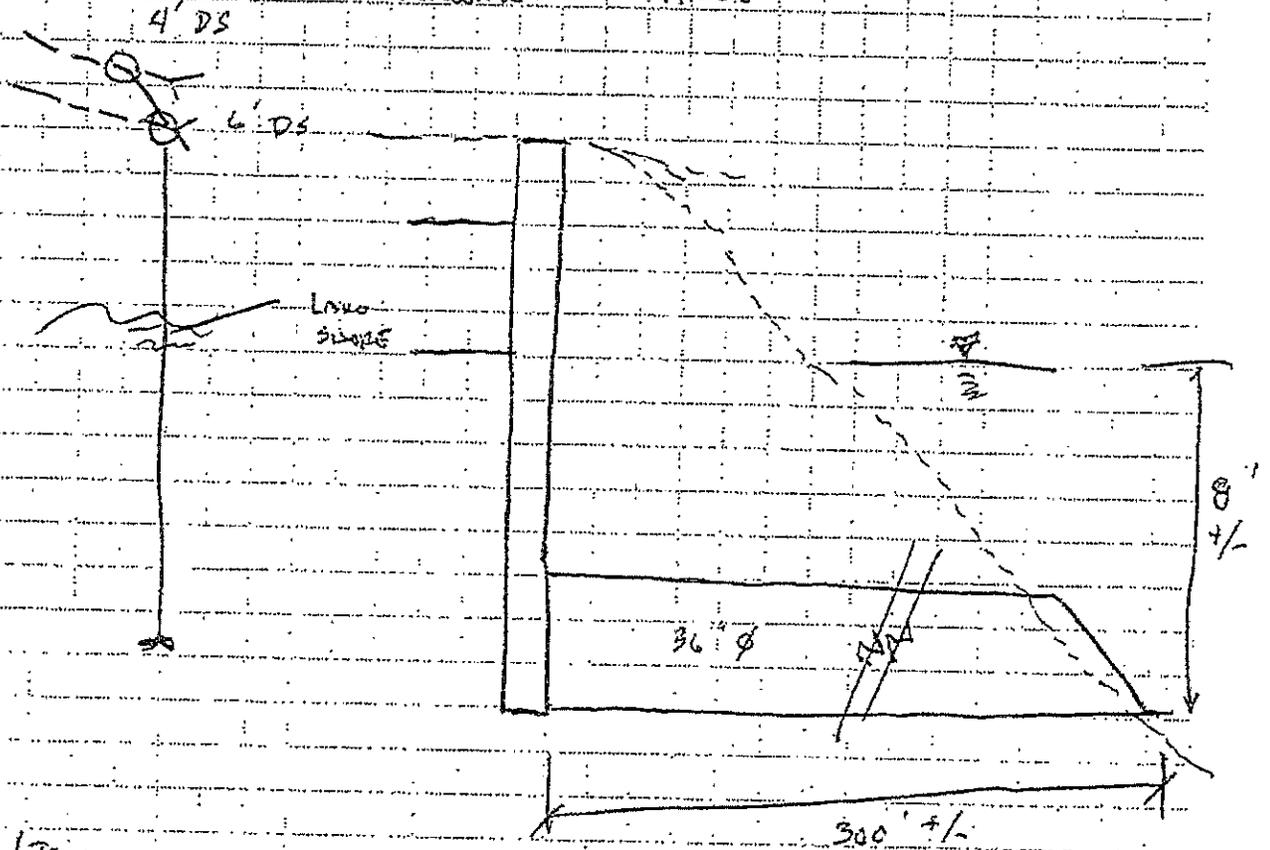
OF

COMP. BY

DATE

OPTION 3

COMBINE STM
PIPE OUT INTO LAKE
UNDESIRABLE DISCHARGES



ITEMS

- 4' DS
- 6' DS
- 36" STM - DI 40' ON SHORE
- 36" STM - DI 250' FROM LAKE
- END SECTION w/ GATE

Michael Cain

From: Fox, Larry [larry.fox@C2AE.COM]
Sent: Friday, May 17, 2013 7:41 AM
To: Michael Cain; Andy Kovolski
Subject: RE: Lower Lake Street

My opinion is that the flow is too high to effectively use a sediment basin in this location (between the end of pipe and lake edge). The size of the basin required to decrease the flow velocity to drop out the sediment would be too large to fit in the space available near the beach. We could utilize the right of way further away from the beach, but I think that a stormwater treatment unit as had been discussed previously would be a better option (when you can afford it).

Just my thoughts.

Larry M. Fox, P.E.
Principal, Director of Northern Municipal Infrastructure
C2AE
123 W. Main Street, Ste 200
Gaylord, MI 49735
P: 989-732-8131 Ext. 26
F: 989-732-2714
C: 989-619-7712
E: larry.fox@c2ae.com
www.c2ae.com – elevating human achievement
planners, architects and engineers delivering projects that thrive

From: Michael Cain [mailto:mcaïn@boyncity.com]
Sent: Thursday, May 16, 2013 5:15 PM
To: Andy Kovolski
Cc: Fox, Larry
Subject: FW: Lower Lake Street
Importance: High

Possible? What does it do to cost or the beach? M

From: Grenetta Thomassey [mailto:grenetta@watershedcouncil.org]
Sent: Thursday, May 16, 2013 4:03 PM
To: Michael Cain
Cc: Andy Kovolski; Jennifer Gelb
Subject: RE: Lower Lake Street
Importance: High

Good Afternoon, Mike – hope you are enjoying the sunshine today! Jen and I met today, to review the proposals you sent. We recommend Option 1, but we have a key suggestion.

We suggest modifying option 1 to include a settling basin in conjunction with the riprap channel.

A settling basin will allow more sediment to drop out, or settle out, of the stormwater. It would

also facilitate easier maintenance by concentrating sediment in one area, where it can be accessed and removed. The settling basin could be located a short distance after the stormwater outfall pipe and then transition to the narrower, riprapped channel that extends toward the lake. The settling basin would be deeper and wider than the subsequent channel. Specifications for the settling basin should be determined by the engineers for proper and effective design.

Thanks very much for giving us the opportunity to weigh in! Please let me know that you received this, and if you or staff have any questions, feel free to let us know.

All the best, Grenetta and Jennifer

Grenetta Thomassey, PhD
Program Director
Tip of the Mitt Watershed Council
231.347.1181 ext. 118
231.838.5193 cell

From: Grenetta Thomassey
Sent: Friday, May 10, 2013 1:58 PM
To: 'Michael Cain'
Cc: Andy Kovolski; Jennifer Gelb
Subject: RE: Lower Lake Street

Hi, Mike! Hope you are well!

Thanks for sending the attachments. I will get with Jen Gelb and we'll do our best to get you something by the 22nd. If there is any problem with that, I'll let you know. Field season has started, so things are ramping up around here.

Thanks again for thinking of us; I'll stay in touch, Grenetta

Grenetta Thomassey, PhD
Program Director
Tip of the Mitt Watershed Council
231.347.1181 ext. 118
231.838.5193 cell

From: Michael Cain [<mailto:mcain@boynecity.com>]
Sent: Friday, May 10, 2013 1:54 PM
To: Grenetta Thomassey
Cc: Andy Kovolski
Subject: FW: Lower Lake Street

Hi Grenetta, Last fall we toured several lakefront site in Boyne and looked at several issues we are dealing with. You may recall our visit to Lower Lake Street and discussion on how to better handle the storm water discharge pipe while still maintaining a 'beach' area for the public. Could you and your staff please review the enclosed attachments and let me know if you have any input or other suggestions/comments we should consider. I look to discuss this issue with our City Commission on

May 28th and would need any input no later than May 22nd. Thanks for any assistance you or your staff could provide. And of course cost is an issue. Mike

From: Scott McPherson
Sent: Friday, May 10, 2013 11:22 AM
To: Michael Cain
Subject: RE: Lower Lake Street

Here it is.

-----Original Message-----

From: Michael Cain
Sent: Friday, May 10, 2013 11:16 AM
To: Scott McPherson
Subject: Lower Lake Street

Can you email me a current aerial showing me our lower lake street park, the waterfront and the houses on either side? I'd like to be able to see th stormwater discharge issue/path we have flowing across that beach. Thanks. Mike

Michael Cain
City Manager
City of Boyne City
231.582.0377
mcain@boynecity.com





City of Boyne City

MEMO

Agenda Item 9C

Date: May 24, 2013
To: Mayor Grunch and the Boyne City City Commission
From: Michael Cain, City Manager *Mc*
Subject: Gravel Road Paving Estimates

Attached for the City Commission's review and consideration is a report from the City's consulting engineers providing us with cost estimates for paving the 24 gravel streets within the City. This report does not include alleys, which do not receive Act 51 road funds from the State to maintain. Following this memo is a summary of the items considered for each road or road segments. I have written in C2AE's cost estimate for each segment, in hundred's of thousands of dollars on the attached documents. The total estimate to pave all of the roads as presented is \$4,104,000. Adding or subtracting items from the work (curbs, water lines, sewer lines, etc.) could add to or subtract from that total.

Mr. Fox from C2AE will be present to review their findings with us. While I believe most of the roads listed are pretty well known we will put a map up on the wall during the meeting for your further reference. If you would like something prior to that, please let me know.

RECOMMENDATION: That the City Commission review the materials presented here and at the meeting and consider providing direction to staff as to how to proceed further.

Options:

- 1) Postpone the matter for further consideration and/or information.
- 2) Other option(s) as determined by the City Commission.



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BASIS OF DESIGN FOR COST OPINIONS

Boyer City Gravel Streets Project

Date: February 20, 2013

Lynn Street – Court Street north to Dead End (370 feet)

- Reviewed As-Bid Miller Street Project Plans 02-0602.
- Soil Boring SB-6 completed in 2002 (did not locate copy of boring)
- City standard cross section (22' wide) with 12" hma curb on each side. Retained previously designed cul-de-sac.
- New Storm CB's at south end of Lynn only to pick up storm water that makes way onto street.
- New 6" dia. water main with new services to Lots 24-26 and Lots 46-48 (6 lots).
- New 8" dia. sanitary sewer with new services to Lots 24-26 and Lots 46-48 (6 lots).
- No sidewalk.
- May have poor soils in area. Assume required to remove 2 feet of existing material under proposed center line north to dead end. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to proposed catch basins. This is as proposed in the 2002 project.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

\$ 155K - See Page 8

Newton Street – Court Street north to 50' north of existing ditch (470 feet)

- Reviewed As-Bid Miller Street Project Plans 02-0602.
- Soil Borings SB-1 & SB-2 completed in 2002 (did not locate copies of borings)
- City standard cross section (22' wide) with 12" hma curb on each side. End street 50' north of existing ditch that crosses roadway. End street without a cul-de-sac or hammer head turn around.
- New Storm Sewer from Court Street to north of existing ditch per 2002 design. Includes Inlet for ditch that is located on lot #85. Will be ready for development of the Miller Street area.
- New 6" dia. water main with new services to Lots 73-77 and Lots 83-86 (9 lots).
- New 8" dia. sanitary sewer with new services to Lots 73-77 and Lots 83-86 (9 lots).
- No sidewalk.
- May have poor soils in area. Assume required to remove 2 feet of existing material under proposed center line to 50' north of existing ditch. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to proposed catch basins. This is as proposed in the 2002 project.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

231K See Page 9

Addis Street – Ridge Street north to City Gate (990 feet)

- Typical Cross Section D2, modified to provide 8" CIP aggregate base.
- Typical cross section includes ditching. Estimate (3) cross culverts with drainage to City property.
- No storm sewer required.
- No water main or water service improvements required.
- No sanitary sewer or sewer service improvements required.
- No sidewalk.
- Expect poor soils at north end. Assume required to remove 3 feet of existing material under north half of project limits (28' wide * 495' long). Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to ditches.
- Replace (2) existing driveways to be hma (330#/syd).

193K See Page 10

Ridge Street – Charlevoix Street west to Addis Street (750 feet)

- Typical Cross Section D2 from Escape west to Addis (with ditching). Section modified to provide 8" CIP aggregate base. Cross Section from Escape east to Charlevoix will equal the Charlevoix Street cross

168K See Page 11

1

section (D5 modified to have 2 each 12' wide driving lanes). Concrete curb & gutter will also be placed at the Escape Intersection.

- No storm sewer required. City base map contours show high point at Escape and falls off to Charlevoix St (to east). Assume to have spill way on west end of SW quad Intersection. Remainder of curb will drain to Charlevoix and the existing catch basins. The west end ditching will drain to west and infiltrate into sandy soils.
- Increased Machine Grading Modified unit price to relocate roadway to center of ROW. Requires fill material. City property on both sides in relocation area.
- No water main improvements required. Add (4) water services for potential buildable lots.
- Install sanitary sewer from Charlevoix to Escape. Add (4) sewer services for potential buildable lots.
- No sidewalk.
- Soils are acceptable. No Subgrade Undercutting or underdrains required
- Replace (2) existing hma driveways (220#/syd).

Escape Street – Court Street north to Ridge Street (315 feet)

- Typical Cross Section D2 from Court north to Ridge. Section modified to provide 8" CIP aggregate base and hma curb full length.
- No storm sewer. Street slopes to south. Estimate (1) cross culvert at south end to outlet onto City property on west side of street.
- New 6" dia. water main full length. New water service to house on east side. Replace (2) existing hydrants.
- No sanitary sewer improvements.
- No sidewalk.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Replace (1) existing 6" concrete driveway.

78 K

See Page 12

Jefferson Street – Court Street south to existing pavement (1265 feet)

- Half City, Half Township.
- Typical Cross Section D2 from Court south to existing pavement. Ditching full length of project. Construct ditching 250' south of project limits to drain storm to existing storm sewer inlets.
- High point 280' south of Court. From high point, City map contours show flows consistently south to existing storm sewer.
- Extend ditching 250 ft south of project limits so to inlet to existing storm. Additional ditching included in cost opinion.
- Ditching from the high point, 280' south of Court will drain north. Storm water will be addressed on Court Street.
- No water main improvements.
- No sanitary sewer improvements.
- Proposed sidewalk one side of street.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches. (14) existing driveways, proposed ditching will require 15" dia. drive culverts for all driveways.

310 K

See Page 13

Collins Street – East Street, east to Jefferson Street (695 feet)

- Cross section to match Collins cross section west of East Street (C2AE Project#08668 with concrete curb & gutter both sides, (2) 11' wide driving lanes and 7' wide parallel parking on north side of Collins).
- Connect new 12" dia storm sewer from stub at East Street, approx. 440 ft. 08-08668 base drawing shows design of profile. Install new MH at low point, stub locations and at end of new storm. Estimate that storm would have at least 5' cover. There is an existing 12" dia storm along Jefferson. Assume that this intersection will use existing storm and then drain to south.
- Connect new 8" sanitary sewer from existing MH B268 (Jersey CL) to MH B269. Assume existing mh located near new home at Jersey Street. 08-0668 base drawing shows cl profile and future sanitary sewer at 0.40%. As long as new sewer from East to Jersey was placed at 0.40% slope, there should be approx. 10' cover at new sanitary just west of Jefferson.

— Delete Parking Lane

See Page 14

318 K

- New 8" dia. water main full length. Replace (2) existing hydrants.
- Proposed sidewalk north side of street only. Connect to existing sidewalk on Coillns.
- Expect poor soils in area. Assume required to remove 2 feet of existing material under proposed center line north to dead end. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to proposed catch basins.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches. (4) existing gravel driveways.

Grove Street – Groveland Street north to dead end (200 feet)

- Typical Cross Section to be 18' wide hma with 12" hma curb (both sides) and 6" 22A aggregate base. No ditching required. New street will just end (no cul-de-sac or hammerhead turn around).
- No storm sewer required. Street drains to south. Place CB's at Groveland to capture storm water. Connect to existing 12" dia. storm at storm manhole ST-LH110. (Please note, the City Storm Sewer Study recommended placing a new 18" dia. storm along street right-of-way, this is not included in cost opinion.)
- Place new 6" dia. water main full length. Place fire hydrant at north end. 2 new water services.
- Place new 8" dia. sanitary sewer full length. 2 new sewer services. Connect to MH SN-B263
- No sidewalk.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

73K

See Page 15

Ottawa Street – Groveland Street north to dead end (260 feet)

- Typical Cross Section to be 18' wide hma with 12" hma curb (both sides) and 6" 22A aggregate base. No ditching required. New street will just end (no cul-de-sac or hammerhead turn around).
- No storm sewer required. Street drains to south. Place CB's at Groveland to capture storm water. Connect to existing 12" dia. storm at storm manhole ST-LH108. (Please note, the City Storm Sewer Study recommended placing a new 18" dia. storm along street right-of-way, this is not included in cost opinion.)
- No water main improvements or new water services required.
- No sanitary sewer improvements or new sewer services required.
- No sidewalk.
- Expect poor soils in area. Assume required to remove 2 feet of existing material under proposed center line north to dead end. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to proposed catch basins.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

68K

See Page 16

Fremont Street – Groveland Street north to dead end (200 feet)

- Typical Cross Section to be 18' wide hma with 12" hma curb (both sides) and 6" 22A aggregate base. No ditching required. New street will just end (no cul-de-sac or hammerhead turn around).
- No storm sewer required. Street drains to south. Place CB's at Groveland to capture storm water. Connect to existing 12" dia. storm at storm manhole ST-LH107. (Please note, the City Storm Sewer Study recommended placing a new 18" dia. storm along street right-of-way, this is not included in cost opinion.)
- Place new 6" dia. water main full length. Place fire hydrant at north end. 3 new water services.
- Place new 8" dia. sanitary sewer full length. 3 new sewer services. Connect to stub from MH SN-B261.
- No sidewalk.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

78K

See Page 17

Union/Edwin Streets – Vogel Street south & west to dead end (365 feet)

- Area not Act 51.
- Typical Cross Section to be 18' wide hma with 12" hma curb (both sides) and 6" 22A aggregate base. No ditching proposed. New street will just end (no cul-de-sac or hammerhead turn around).
- New 12" dia. storm sewer on Union (from Vogel to Edwin for areal shows Union drains to south.) Place CB's at Union/Edwin to capture storm water. Connect to existing 16" dia. storm on Vogel.

130K

See Page 18

- Place new 6" dia. water main full length. Place fire hydrant at west end. 3 new water services.
- Area served by existing 8" dia. sanitary sewer full length (Manholes SN-B304 Union/Edwin Intersection & SN-B303 Union/Vogel Intersection). Flows west on Vogel. Place new MH at west extents of Edwin. There is no sanitary on Vogel, east of Union.
- No sidewalk.
- Expect poor soils in area and high groundwater in area. Assume required to remove 2 feet of existing material under proposed center line north to dead end. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to proposed catch basins.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

Taylor Street – State Street north to Rotary Park (215 feet)

- Typical Cross Section will equal the Charlevoix Street cross section (D5 modified to have 2 each 12' wide driving lanes). (Stop short of MDOT ROW along State Street with C&G.)
- New storm sewer proposed from State Street north to pick up the drainage swale. New storm will connect to ST-RH600. City base map contours show that the street drains to State Street (to south).
- Place new 6" dia. water main full length. Place fire hydrant at north end. 2 new water services.
- Install sanitary sewer from State Street north to project limits. Connect to existing sanitary sewer outside of MDOT right-of-way. 2 new sewer services.
- Sidewalk on east side of street.
- Expect poor soils in area. Assume required to remove 2 feet of existing material under proposed center line north to dead end. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to proposed catch basins.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

120 K

See Page 19

Knollwood Street – State Street to south and west

- Leave off list, private.

Call Street – Vogel Street north to City Limits (1320 feet)

- Typical Cross Section will equal the Charlevoix Street cross section (D5 modified to have 2 each 12' wide driving lanes).
- Existing 12" dia. storm sewer is located from 125 ft north of Vogel Street and extends north 950 ft. There are also (4) existing structures. The cost opinion assumes that the existing storm will be reused for the mainline. At each existing structure, new storm catch basins and connecting 12" dia. storm sewer will be installed. City base map contours show that the street drains to Vogel Street (to south). From the existing structure ST-RK900, new 18" dia. storm sewer will be installed. Assume an outlet will be constructed in Rotary Park. However, the soils are wet in Rotary Park. Another alternate would be to obtain private land and install a basin either on the east or west side of Call St. The soils maps show the same soil in all areas of the Vogel/Call Intersection.
- No water main improvements or new water services required. Note, there is no municipal water in this area. A future 12" dia. water main loop is proposed for Vogel from Jefferson to Call and along Call from Vogel to State Street. The additional cost for this loop is estimated to be \$390,000 and is not shown in the cost opinion. Anticipate that this would be placed in the green space by direction drilling to limit disturbance.
- No sanitary sewer improvements or new sewer services required. Note, there is no municipal sewer in this area.
- No sidewalk.
- Expect poor soils in area. Assume required to remove 2 feet of existing material under proposed center line in proposed project area. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to proposed catch basins.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

397 K

See Page 20

Spring Street – Oak Street west to Jefferson Street (1000 feet)

- Typical Cross Section proposed D5 modified to have 2 each 12' wide driving lanes.

344 K

See Page 21

- New 36" dia. storm sewer is proposed for this entire project length (sizing based on the City Storm Sewer Study). The storm water will outlet to existing outlet "RH" to the river.
- No water main improvements or new water services required.
- No sanitary sewer improvements or new sewer services required.
- Sidewalk on one side of street.
- Soils are acceptable. No Subgrade Undercutting or underdrains required. —
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

Marl Street – Forest Alley north to Main Street (220 feet)

- Typical Cross Section proposed D5 modified to have 2 each 12' wide driving lanes.
- New 36" dia. storm sewer is proposed for this entire project length (sizing based on the City Storm Sewer Study). Plus add new temporary 12" dia. storm connection along the south edge of Maple from Marl east approximately 210 ft. Connect storm to structure ST-RK104. This storm water will flow to existing outlet "RK" to the river. The 12" dia. sewer would be replaced with 36" dia. per City Storm Study in the future.
- No water main improvements or new water services required.
- No sanitary sewer improvements or new sewer services required. Included San MH and stub for future alley service.
- Sidewalk on one side of street.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

110K See Page 22

Forest Street (Alley) – Marl Street east to Dead End (500 feet)

- Proposed Chlp Seal Alley at this time only. 12 ft wide X 500 ft long.
- No storm sewer improvements at this time.
- No water main improvements or new water services required.
- No sanitary sewer improvements or new sewer services required. Included San MH and stub for future alley service on Marl Street cost opinion.
- Sidewalk on one side of street.
- Existing groundwater issues. However, no Subgrade Undercutting or underdrains included at this time.
- No driveway improvements.

5K See Page 23

McClellan Street – Roosevelt Street to south Dead End (330 feet)

- Typical Cross Section proposed D5 modified to have 2 each 12' wide driving lanes. A hammerhead turn-a-round Included at south end.
- No storm sewer improvements required. Curb and gutter will have rip-rap outlet to drainage swale near airport. No curb & gutter was included at end of hammerhead turn-a-round. City base map shows the street draining toward the river. Extra unit price was added to machine grading, modified pay item to account for having proposed street drain the opposite way.
- No water main improvements or new water services required.
- No sanitary sewer improvements or new sewer services required. Included San MH and stub for future at Roosevelt. Note, there is no municipal sewer in this area.
- Sidewalk on one side of street.
- Existing groundwater issues. However, no Subgrade Undercutting or underdrains included at this time. Existing sugar sand in area, percs well.
- No driveway improvements for no existing homes along project area.

121K See Page 24

Timberline Trail – Pleasant Avenue to Dead End (180 feet)

- Typical Cross Section to be D2 modified to 2 each 9' wide driving lanes. New street will just end (no cul-de-sac or hammerhead turn around). There is existing grade issues in area.
- No storm sewer improvements required. Ditching will perc into soil at NE end.
- No water main improvements or new water services required. Note, there is no municipal water in this area.

52K See Page 25

5

- No sanitary sewer improvements or new sewer services required. Note, there is no municipal sewer in this area.
- No sidewalk.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

Prospect Street -- Pleasant Avenue to Dead End (250 feet)

- Typical Cross Section to be D2 modified to 2 each 9' wide driving lanes. New street will just end (no cul-de-sac or hammerhead turn around).
- No storm sewer improvements required. Ditching will perc into soil at NE end. Area received surface drainage from Pleasant Avenue.
- No water main improvements or new water services required. Note, there is no municipal water in this area.
- No sanitary sewer improvements or new sewer services required. Note, there is no municipal sewer in this area.
- No sidewalk.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

71K See Page 26

Ann Street -- First Street to Second Street (450 feet)

- Typical Cross Section proposed D5 modified to have 2 each 12' wide driving lanes.
- Place new storm sewer entire length. Plus add new 12" dia. storm along edge of Second Street from Ann to Trent. Connect storm to existing structure ST-LR110d.
- No water main improvements required. Replace (1) water service only. — City crew?
- No sanitary sewer improvements or new sewer services required.
- No sidewalk.
- Soils are acceptable. No Subgrade Undercutting or underdrains required.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

161K See Page 27

Wilson Street -- Division Street south to end (880 feet)

- Typical Cross Section proposed D2. Note, existing pavement extends approximately 320 ft south of Division. The unpaved portion of Wilson extends another 560 ft south of pavement. The proposed cross section will be applied along the entire length of 880 ft. The proposed ditch on the west side must fit between the gravel shoulder and the existing hma bike path.
- The existing 12" dia. storm sewer will be adequate for this section. Additional catch basins will be installed for the new street cross section.
- No water main installation is required. No water main exists in this area.
- No sanitary sewer improvements or new sewer services required. The existing sanitary sewer is shallow but adequate.
- No sidewalk.
- Expect poor soils in area. Assume required to remove 2 feet of existing material under proposed center line in proposed project area. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to existing/proposed catch basins. Estimate that 1/2 of the project limits will have poor soils.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

173K See Page 28

North Lake Street -- Silver Street to Court Street (500 feet)

- Typical Cross Section proposed D5 modified to have 2 each 12' wide driving lanes (includes curb & gutter both sides). Hma thickness shall be 3.5" (385#/syd).
- Install proposed 24" dia. storm sewer in this area from existing structure ST-LE200 north to existing detention basin on west side (per City Storm Sewer Study). Install proposed 18" dia. storm sewer from the existing detention pond north to the Court Street intersection (per City Storm Sewer Study).
- No water main upgrades required.

— 2015 See Pages 29-31

- Install new 8" dia. sanitary sewer (280 ft) and new sewer services from mid-block northeast to Court intersection. This improvement was noted in the City Sanitary Sewer Study recently completed.
- No sidewalk.
- Expect poor soils in area. Assume required to remove 2 feet of existing material under proposed center line in proposed project area. Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to existing/proposed catch basins. Estimate that 1/2 of the project limits will have poor soils.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

Court Street -- Lynn Street to Park Street (2250 feet)

- Typical Cross Section proposed D5 modified to have 2 each 12' wide driving lanes (includes curb & gutter both sides). Hma thickness shall be 3.5" (385#/syd). Unit pricing for machine grading, modified is higher than normal due to the rolling terrain and significant work required to grade the new roadway.
- Install proposed 18" dia. storm sewer in this area per City Storm Sewer Study.
- No water main improvements or new water services required.
- No sanitary sewer improvements or new sewer services required.
- Proposed sidewalk one side.
- Expect poor soils in area. Assume required to remove 3 feet of existing material under proposed center line in proposed project area (34' wide). Place stabilization fabric, sand subbase and underdrain beneath aggregate base, outlet to existing/proposed catch basins. Complete soil borings prior to beginning design.
- Driveways, HMA or 6" concrete, replace in kind. No gravel approaches.

- 2015

See Pages 29-31

748K



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CITY OF BOYHE CITY
 Street Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Lynn Street from Court Street north to Dead End

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|------------------------------------|---|--------------------|-----------|-------------|--------------|-------------------------------------|
| 1 | Mobilization 10% Mile | 1 | LSUM | \$11,300.00 | \$11,300.00 | 1 |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 3 | Adjust Water Valve or WSD | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | From dwg |
| 7 | Excavation | 1,332 | CYD | \$3.00 | \$3,996.00 | From dwg |
| 8 | Embankment | 8 | CYD | \$8.00 | \$64.00 | From dwg |
| 9 | Subgrade Underlayment, Type II (includes used backfill) | 830 | CYD | \$12.00 | \$9,960.00 | (11175') ² /27 |
| 10 | Geotextile Stabilization | 1,248 | SYD | \$2.50 | \$3,120.00 | Offset back IMA curb 2' (11175)sh |
| 11 | Underdrain, Subgrade, 6 inch | 705 | LFT | \$3.00 | \$2,115.00 | 705 |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6 inch | 2 | EACH | \$300.00 | \$600.00 | 2 |
| 14 | Water Main, 6" PVC DR 18 | 339 | LFT | \$28.00 | \$9,492.00 | 339 |
| 15 | Water Valve, 6" | 1 | EACH | \$180.00 | \$180.00 | 1 |
| 16 | Water Main Protection Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 3" Dia. Tapping Baffle and Corporation Stop | 8 | EACH | \$200.00 | \$1,600.00 | 8 lots |
| 18 | Water Service, 1" Type K Copper | 188 | LFT | \$20.00 | \$3,760.00 | 3x10, 3x53 |
| 19 | Curb Stop & Box, 1 inch | 8 | EACH | \$225.00 | \$1,800.00 | 8 lots |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 1 | EACH | \$1,600.00 | \$1,600.00 | Connect to Ex WM on Court |
| 22 | The Hydrant Assembly | 1 | EACH | \$2,600.00 | \$2,600.00 | 1 at north end of Lynn |
| 23 | Tap & Connect to Existing Sanitary Manhole | 1 | EACH | \$500.00 | \$500.00 | Assumes a MH in Court to connect to |
| 24 | 6" Dia. Sanitary Manhole Including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 25 | 8" Dia. PVC SDR-35 Sanitary Sewer | 330 | LFT | \$30.00 | \$9,900.00 | 330 |
| 26 | 6x8" Sanitary Sewer Vye | 8 | EACH | \$120.00 | \$960.00 | 8 lots |
| 27 | 6" Dia. PVC SDR-35 Sanitary Sewer Lead | 211 | LFT | \$12.00 | \$2,532.00 | 7x33 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2" Dia. Catch Basin Including Casting | 1 | EACH | \$1,700.00 | \$1,700.00 | 1 |
| 30 | 4" Dia. Catch Basin Including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 31 | 6" Dia. Storm Manhole Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$0.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 71 | LFT | \$26.00 | \$1,846.00 | 49, 22 |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | Assumes a MH in Court to connect to |
| 37 | Machine Grading, Modified | 3.7 | SIA | \$2,000.00 | \$7,400.00 | 3.7 |
| 38 | 5" 23A Aggregate Shoulder | 310 | SYD | \$5.00 | \$1,550.00 | 310 for drives |
| 39 | 5" 22A Aggregate Base | 1,215 | SYD | \$1.00 | \$1,215.00 | 1215 |
| 40 | 5" 22A Aggregate Base | 0 | SYD | \$0.00 | \$0.00 | 0 |
| 41 | IMA Paved (300x30) | 182 | TON | \$70.00 | \$12,740.00 | From dwg (KMT cal'd 189) |
| 42 | IMA Approach | 37 | TDN | \$110.00 | \$4,070.00 | 7(20x20)+220#sq/yd+5% |
| 43 | IMA Curb | 815 | LFT | \$3.00 | \$2,445.00 | 815 |
| 44 | 5" Concrete Drive Approach | 70 | SFT | \$5.00 | \$350.00 | estimate from dwg (1 drive only) |
| 45 | 5" Concrete Sidewalk | 0 | SFT | \$0.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$0.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp, ADA (incl. sloped/warning surface) | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified (6x11-4) | 0 | LFT | \$16.00 | \$0.00 | 0 |
| 49 | Traffic Control and Signage | 0.5 | LSUM | \$2,000.00 | \$1,000.00 | 0.5 |
| 50 | Soaker Grids/Reservoirs | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Injection System, Protect | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 52 | Revised Marking | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Seed | 1,317 | SYD | \$4.00 | \$5,268.00 | From dwg |
| SUBTOTAL= | | | | | \$124,236.60 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$31,059.63 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$155,296.23 | |

Cost Opinion based on 2013 Construction



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CITY OF BOYHE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Hewton Street from Court Street north to 59' north of existing ditch

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|------------------------------------|--|--------------------|-----------|-------------|--------------|--------------------------------------|
| 1 | Substation, 10M Max | 1 | LSUM | \$16,600.00 | \$16,600.00 | |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$300.00 | \$0.00 | 0 |
| 3 | Adjust Water Valve or WSO | 0 | EACH | \$250.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Cleaning & Grubbing | 0.1 | ACRE | \$4,000.00 | \$400.00 | 0.1 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embarkment | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 9 | Subgrade Underdrain, Type II (includes sand bedding) | 1,050 | CYD | \$12.00 | \$12,600.00 | (14150')/2/27 |
| 10 | Gravel Subdrain | 1,875 | SYD | \$2.56 | \$4,781.25 | Offset back (IMA curb 2' (14150')) |
| 11 | Underdrain, 6" Dia, 8' Inch | 324 | LFT | \$5.00 | \$1,620.00 | 445, 445 |
| 12 | Underdrain, Outlet Ending 8' Inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CR, 8' Inch | 6 | EACH | \$300.00 | \$1,800.00 | 6 |
| 14 | Water Main, 6" PVC CR 18 | 425 | LFT | \$28.00 | \$11,900.00 | 425 |
| 15 | Water Valve, 6" | 0 | EACH | \$550.00 | \$0.00 | 0, exist on Court |
| 16 | Water Main Release on Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 3" Dia. Tapping Saddle and Corporation Stop | 9 | EACH | \$200.00 | \$1,800.00 | 9 jobs |
| 18 | Water Service, 1" Type K Copper | 320 | LFT | \$29.00 | \$9,280.00 | 4x10, 6x58 |
| 19 | Curb Stop & Box, 1' Inch | 9 | EACH | \$225.00 | \$2,025.00 | 9 jobs |
| 20 | Connect To Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect To Existing Water Main | 1 | EACH | \$1,600.00 | \$1,600.00 | Connect to Ex WM on Court |
| 22 | Fire Hydrant Assembly | 1 | EACH | \$2,800.00 | \$2,800.00 | 1 at north end of Hewton |
| 23 | Tap & Connect to Existing Sanitary Manhole | 1 | EACH | \$500.00 | \$500.00 | Assumes a MHI in Court to connect to |
| 24 | 4" Dia. Sanitary Manhole Including Casing | 2 | EACH | \$2,000.00 | \$4,000.00 | 2 new, assume 1 exist on Court |
| 25 | 6" Dia. PVC SDR 35 Sanitary Sewer | 495 | LFT | \$30.00 | \$14,850.00 | 495 |
| 26 | 6" Dia. Sanitary Sewer Valve | 9 | EACH | \$120.00 | \$1,080.00 | 9 jobs |
| 27 | 6" Dia. PVC SDR 35 Sanitary Sewer Lead | 737 | LFT | \$22.00 | \$16,414.00 | 6x33 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 7" Dia. Catch Basin Including Casing | 6 | EACH | \$1,200.00 | \$7,200.00 | 6 |
| 30 | 8" Dia. Catch Basin Including Casing | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 31 | 8" Dia. Storm Manhole Including Casing | 4 | EACH | \$2,000.00 | \$8,000.00 | 4 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 407 | LFT | \$33.00 | \$13,431.00 | 27, 190, 190 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 159 | LFT | \$25.00 | \$3,975.00 | 22, 20, 20, 17, 6, 6, 6 + 65 manhole |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | Assumes a MHI in Court to connect to |
| 37 | Machine Grading, Modified | 47 | BTA | \$2,000.00 | \$94,000.00 | calcd from dwg |
| 38 | 6" 22A Aggregate Shoulder | 445 | SYD | \$5.00 | \$2,225.00 | 445 for drives |
| 39 | 6" 22A Aggregate Base | 1,355 | SYD | \$13.00 | \$17,615.00 | 1385, offset back bit curb 6" |
| 40 | 6" 22A Aggregate Base | 0 | SYD | \$5.00 | \$0.00 | 0 |
| 41 | IMA Pavement (1330#Byd) | 210 | TON | \$70.00 | \$14,700.00 | 109365#, 030#/syd, +5% |
| 42 | IMA Approach | 52 | TON | \$110.00 | \$5,720.00 | 10 drives @ (20'x20')/220#/syd +5% |
| 43 | IMA Curb | 1,000 | LFT | \$3.00 | \$3,000.00 | 495, 505 |
| 44 | 6" Concrete Drive Approach | 0 | SFT | \$3.00 | \$0.00 | 0 |
| 45 | 6" Concrete Sidewalk | 0 | SFT | \$3.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Storm Slop, ADA (not detectable warning surface) | 0 | SFT | \$17.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified DRAIN-F-4 | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 49 | Heads of Curb and Signage | 0.5 | LSUM | \$2,000.00 | \$1,000.00 | 0.6 |
| 50 | Final Control Markings | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Signage Systems, Prefab | 0 | LSUM | \$1,600.00 | \$0.00 | 0 |
| 52 | Pavement Marking | 0 | LSUM | \$1,600.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topcoat Class A Seed | 7,035 | SYD | \$4.00 | \$28,140.00 | 183000# |
| SUBTOTAL= | | | | | \$184,881.00 | |
| 10% CONTINGENCY + 16% ENGINEERING= | | | | | \$45,145.36 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$230,026.36 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYNE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Adds Steel from Ridge Street north to City Gate

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|--------------------------------------|---|--------------------|-----------|-------------|---------------------|--|
| 1 | Manhole Station 104 Main | 1 | LSUM | \$14,100.00 | \$14,100.00 | 1 |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 3 | Adjust Water Valve or WSO | 0 | EACH | \$750.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 9 | Subgrade Underdrain, Type II (includes sand bed) | 1,540 | CYD | \$12.00 | \$18,480.00 | 1360'x27 |
| 10 | Concrete Subbase | 1,540 | SYD | \$2.50 | \$3,850.00 | (28 ft wide)(145 ft long)/9 |
| 11 | Underdrain, Subgrade, 6 inch | 990 | LFT | \$5.00 | \$4,950.00 | 195'x2 |
| 12 | Underdrain, Outlet Ending, 6 inch | 2 | EACH | \$150.00 | \$300.00 | 2 |
| 13 | Underdrain, Outlet Tap to CU, 6 inch | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 14 | Water Main, 6" PVC DR 18 | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 15 | Water Valve, 6" | 0 | EACH | \$450.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia. Tapping Saddle and Corporation Stop | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 18 | Water Service, 1" Type K Copper | 0 | LFT | \$20.00 | \$0.00 | 0 |
| 19 | Water Service, 1" Type K Copper | 0 | EACH | \$215.00 | \$0.00 | 0 |
| 20 | Curb Stop & Box, 1 inch | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Lead | 0 | EACH | \$1,800.00 | \$0.00 | 0 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,600.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia. Sanitary Manhole Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 25 | 5" Dia. PVC SDR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 26 | 8" Dia. Sanitary Sewer Valve | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 5" Dia. PVC SDR-35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect to Existing Street Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2" Dia. Catch Basin Including Casting | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 30 | 4" Dia. Catch Basin Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 6" Dia. Storm Manhole Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 120 | LFT | \$30.00 | \$3,600.00 | 3 cross streets 60 ft long |
| 35 | 12" Dia. Storm Sewer | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 36 | Tap & Connect to Existing Storm Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 37 | Machine Grading Material | 100 | STA | \$4,000.00 | \$40,000.00 | increased unit price to \$4000/sta for ditching |
| 38 | 5" 22A Aggregate Shoulder | 575 | SYD | \$3.00 | \$1,725.00 | 2(890'x2)'9 + 135 for drive |
| 39 | 5" 22A Aggregate Base | 0 | SYD | \$5.00 | \$0.00 | 0 |
| 40 | 8" 22A Aggregate Base | 2,530 | SYD | \$6.00 | \$15,180.00 | 590'x3'9"=2530syd |
| 41 | HMA Pavement (3300/syd) | 440 | TON | \$79.00 | \$34,800.00 | 2530'x36ft/syd+5% |
| 42 | HMA Approach | 23 | TON | \$180.00 | \$4,140.00 | 2(37x20)' 3300/syd + 5% |
| 43 | HMA Curb | 0 | LFT | \$3.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 0 | SFT | \$2.50 | \$0.00 | 0 |
| 45 | 5" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified Detail F-4 | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 49 | Traffic Control and Signage | 0.5 | LSUM | \$2,000.00 | \$1,000.00 | 0.5 |
| 50 | Erosion Control Measures | 2 | LSUM | \$1,000.00 | \$2,000.00 | 600 ft '52ft for silt fence one side only |
| 51 | Irrigation System, Protect | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 52 | Pavement Marking | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Sand | 3,300 | SYD | \$4.00 | \$13,200.00 | Estimate 15' each side of roadway to restore 2(115)(290)'9 |
| SUBTOTAL= | | | | | \$154,653.00 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$38,668.78 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$193,321.78 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYDE CITY
Gravel Streets Budgeting
Preliminary Opinion of Probable Construction Costs

Project Area - Ridge Steel from Charlevoix Street west to Addis Street

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|---|---|--------------------|-----------|-------------|---------------------|---|
| 1 | Mobilization 10% Mat | 1 | LSUM | \$12,300.00 | \$12,300.00 | |
| 2 | Adjust Drainage Structure of Manhole | 8 | EACH | \$350.00 | \$2,800.00 | 0 |
| 3 | Adjust Water Valve or WSO | 3 | EACH | \$750.00 | \$2,250.00 | 3 per City water map |
| 4 | Receive Drains Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Backfill | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Underdrain, Type II (includes sand backfill) | 0 | CYD | \$12.00 | \$0.00 | 0 |
| 10 | Gas/Void Stabilization | 0 | CYD | \$2.00 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 8 inch | 0 | LFI | \$5.00 | \$0.00 | 0 |
| 12 | Underdrain, Outlet Endcap, 8 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6 inch | 0 | EACH | \$300.00 | \$0.00 | 0 |
| 14 | Water Main, 8" PVD DR 18 | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 15 | Water Valve, 8" | 0 | EACH | \$850.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 4 | EACH | \$1,200.00 | \$4,800.00 | 4 potential buildable lots |
| 17 | 8" Dia. Tapping Saddle and Corporation Stop | 4 | EACH | \$250.00 | \$1,000.00 | |
| 18 | Water Service, 1" Type X Copper | 132 | LFT | \$70.00 | \$9,240.00 | 4' x 33 |
| 19 | Curb Stop & Box, 1 inch | 4 | EACH | \$225.00 | \$900.00 | 4 potential buildable lots |
| 20 | Connect To Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect To Existing Water Main | 0 | EACH | \$1,600.00 | \$0.00 | 0 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,500.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 1 | EACH | \$500.00 | \$500.00 | connected to curb on Charlevoix |
| 24 | 8" Dia. Sanitary Manhole Including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | near Escape |
| 25 | 8" Dia. PVD SCR-35 Sanitary Sewer | 350 | LFT | \$30.00 | \$10,500.00 | 350 |
| 26 | 8" Dia. Sanitary Sewer Manhole | 4 | EACH | \$110.00 | \$440.00 | 4 potential buildable lots |
| 27 | 8" Dia. PVD SCR-35 Sanitary Sewer Lead | 132 | LFT | \$72.00 | \$9,504.00 | 4' x 33 |
| 28 | Connect To Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2" Dia. Catch Basin Including Casting | 0 | EACH | \$1,100.00 | \$0.00 | 0 |
| 30 | 4" Dia. Catch Basin Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4" Dia. Storm Manhole Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$10.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFI | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 0 | LFI | \$25.00 | \$0.00 | 0 |
| 36 | Tap & Connect to Existing Storm Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 37 | Machine Grading, Modified | 7.6 | SIA | \$5,000.00 | \$37,500.00 | Increased unit price to \$5000/sia for ditching & minor relocation of road |
| 38 | 6" 23A Aggregate Shoulder | 210 | SYD | \$12.00 | \$2,520.00 | 2(350' long * 2' wide) * 90 for drives |
| 39 | 6" 23A Aggregate Base | 1,215 | SYD | \$8.00 | \$9,720.00 | 1(630'sR from unsaved dwg |
| 40 | 6" 23A Filler Base | 820 | SYD | \$9.00 | \$7,380.00 | 2(410'sR from unsaved dwg |
| 41 | HMA Pavement (100% 2 1/2") | 345 | TON | \$70.00 | \$24,150.00 | 1(172.5'sR from unsaved dwg/330/syd + 6% |
| 42 | HMA Approach | 11 | TON | \$110.00 | \$1,210.00 | 2(27x20') 220R/syd + 6% |
| 43 | HMA Curb | 0 | LFT | \$3.00 | \$0.00 | 0 |
| 44 | 0' Concrete Drive Approach | 0 | SFT | \$5.00 | \$0.00 | 0 |
| 45 | 6" Concrete Sidewalk | 0 | SFT | \$5.50 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Outer, Modified Detail F-1 | 800 | LFT | \$15.00 | \$12,000.00 | 384, 356, 50 |
| 49 | Traffic Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 | 1 |
| 50 | Erosion Control Measures | 1.5 | LSUM | \$1,000.00 | \$1,500.00 | 750' \$2 for silt fence on one side |
| 51 | Utility Survey, Private | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 52 | Perennial Mowing | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restoration 3" Trefoil and Grass Seed | 2,050 | SYD | \$4.00 | \$8,200.00 | Estimate 15' each side of roadway to restore for ditching, 10' for curb (2)(15)(350) + (2)(10)(100) * 9 |
| SUBTOTAL= | | | | | \$134,739.00 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$33,884.75 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$168,623.75 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYHE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Escape Street from Court Street north to Ridge Street

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|--------------------------------------|--|--------------------|-----------|-------------|--------------------|--|
| 1 | Mobilization, 10% M/L | 1 | LSUM | \$5,700.00 | \$5,700.00 | |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 3 | Adjust Water Valve or WSO | 2 | EACH | \$350.00 | \$700.00 | estimate 2 wv |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,900.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$2.00 | \$0.00 | 0 |
| 9 | Subgrade Undercutting, Type II (exc. holes and backfill) | 0 | CYD | \$12.00 | \$0.00 | 0 |
| 10 | Reconstruct Stable/Man | 0 | SYD | \$2.50 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 6 inch | 0 | LFT | \$5.00 | \$0.00 | 0 |
| 12 | Underdrain, Outlet/Endcap, 6 inch | 0 | EACH | \$185.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet/Top to CB, 6 inch | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 14 | Water Main, 6" PVC DR 18 | 330 | LFT | \$25.00 | \$8,250.00 | est 330 |
| 15 | Water Valve, 6" | 3 | EACH | \$850.00 | \$2,550.00 | estimate 3 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia. Tapping Saddle and Corporation Stop | 1 | EACH | \$200.00 | \$200.00 | |
| 18 | Water Service, 1" Type K Copper | 33 | LFT | \$3.00 | \$99.00 | 33 |
| 19 | Curb Stop & Box, 1 inch | 1 | EACH | \$225.00 | \$225.00 | 1 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 2 | EACH | \$11,500.00 | \$23,000.00 | 2, north end and south end |
| 22 | Fix Hydro Air Assembly | 2 | EACH | \$2,500.00 | \$5,000.00 | Replace 2, north end and south end |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4 Dia. Sanitary Manhole Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 25 | 8" Dia. PVC SDR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 26 | 8" Dia. Sanitary Sewer V/O | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 6" Dia. PVC SDR-35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2 Dia. Catch Basin Including Casting | 0 | EACH | \$1,700.00 | \$0.00 | 0 |
| 30 | 4 Dia. Catch Basin Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4 Dia. Storm Manhole Including Casting | 0 | EACH | \$1,000.00 | \$0.00 | 0 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 68 | LFT | \$30.00 | \$2,040.00 | estimate 1 cross culvert at Court to drain to City property on west side |
| 35 | 12" Dia. Storm Sewer | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 36 | Tap & Connect to Existing Storm Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 37 | Machine Grading, Modified | 3.5 | STA | \$2,000.00 | \$7,000.00 | 3.5 |
| 38 | 6" 23A Aggregate Shoulder | 0 | SYD | \$5.00 | \$0.00 | 0 |
| 39 | 6" 23A Aggregate Base | 0 | SYD | \$5.00 | \$0.00 | 0 |
| 40 | 6" 23A Aggregate Base | 850 | SYD | \$8.00 | \$6,800.00 | 707.5ft for 6" outside of HMA curb. |
| 41 | HMA Pavement (300#/yd) | 155 | TDN | \$70.00 | \$10,850.00 | 5915 sq 350#/yd + 6% |
| 42 | HMA Approach | 0 | TDN | \$110.00 | \$0.00 | 0 |
| 43 | HMA Curb | 840 | LFT | \$3.00 | \$2,520.00 | 260, 260 |
| 44 | 6" Concrete Drive Approach | 1,000 | SF | \$5.00 | \$5,000.00 | 20*50 |
| 45 | 6" Concrete Sidewalk | 0 | SF | \$5.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SF | \$5.00 | \$0.00 | 0 |
| 47 | Concrete Ramp, ADA (incl. detectable warning surface) | 0 | SF | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified Detail F-4 | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 49 | Traffic Control and Signage | 0.8 | LSUM | \$2,000.00 | \$1,600.00 | 0.8 |
| 50 | Erected Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Signage System, Project | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 52 | Pavement Marking | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Sand | 288 | SYD | \$4.00 | \$1,152.00 | 2*10*350/9 |
| SUBTOTAL= | | | | | \$62,215.00 | |
| 15% CONTINGENCY + 15% ENGINEERING= | | | | | \$16,833.75 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$77,850.00 | |

Cost Opinion based on 2013 Construction



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CITY OF BOYNE CITY
Gravel Streets Budgeting
Preliminary Opinion of Probable Construction Costs

Project Area - Jefferson Street from Court Street north to existing pavement

| Item # | ITEM DESCRIPTION | Estimated Quantity | Unit | Unit Price | Total Price |
|--------------------------------------|--|--------------------|------|-------------|---------------------|
| 1 | Vegetation, JDA, Max | 1 | LSUM | \$72,600.00 | \$72,600.00 |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 |
| 3 | Adjust Water Valve or VSO | 0 | EACH | \$750.00 | \$0.00 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 |
| 8 | Embankment | 0 | CYD | \$8.00 | \$0.00 |
| 9 | Strip and Undercutting, Type II (includes sand backfill) | 0 | CYD | \$12.00 | \$0.00 |
| 10 | Electrical Substation | 0 | SYD | \$2.50 | \$0.00 |
| 11 | Underdrain, Subgrade, 8 inch | 0 | LFT | \$5.00 | \$0.00 |
| 12 | Underdrain, 6" PVC DR 18 | 0 | EACH | \$150.00 | \$0.00 |
| 13 | Underdrain, 6" PVC DR 18 | 0 | EACH | \$300.00 | \$0.00 |
| 14 | Water Main, 6" PVC DR 18 | 0 | LFT | \$45.00 | \$0.00 |
| 15 | Water Valve, 6" | 0 | EACH | \$850.00 | \$0.00 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 |
| 17 | 1" Dia Tapping Saddle and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 |
| 18 | Water Service, 1" Type K Copper | 0 | LFT | \$20.00 | \$0.00 |
| 19 | Curb Stop & Box, 1 foot | 0 | EACH | \$225.00 | \$0.00 |
| 20 | Connect To Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 |
| 21 | 1/2" Hydrant Assembly | 0 | EACH | \$1,500.00 | \$0.00 |
| 22 | Top & Concrete Existing Sanitary Manhole | 0 | EACH | \$2,000.00 | \$0.00 |
| 23 | 6" Dia Sanitary Manhole Including Casting | 0 | EACH | \$500.00 | \$0.00 |
| 24 | 8" Dia PVC SDR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 |
| 25 | 6" Dia PVC SDR-35 Sanitary Sewer | 0 | EACH | \$180.00 | \$0.00 |
| 26 | 8" Dia PVC SDR-35 Sanitary Sewer | 0 | LFT | \$22.00 | \$0.00 |
| 27 | Connect To Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 |
| 28 | 7" Dia Catch Basin Including Casting | 0 | EACH | \$1,700.00 | \$0.00 |
| 29 | 8" Dia Catch Basin Including Casting | 0 | EACH | \$2,000.00 | \$0.00 |
| 30 | 6" Dia Storm Manhole Including Casting | 0 | EACH | \$2,000.00 | \$0.00 |
| 31 | 12" Dia Storm Sewer | 0 | LFT | \$40.00 | \$0.00 |
| 32 | 18" Dia Storm Sewer | 0 | LFT | \$35.00 | \$0.00 |
| 33 | 18" Dia Storm Sewer | 420 | LFT | \$30.00 | \$12,600.00 |
| 34 | 18" Dia Storm Sewer | 60 | LFT | \$28.00 | \$1,680.00 |
| 35 | 12" Dia Storm Sewer | 2 | EACH | \$500.00 | \$1,000.00 |
| 36 | 1/2" Dia Storm Sewer | 15.2 | SIA | \$3,000.00 | \$45,600.00 |
| 37 | Machine Grading, Modified | 920 | SYD | \$5.00 | \$4,600.00 |
| 38 | 6" 22A Aggregate Subgrade | 3,335 | SYD | \$5.00 | \$16,675.00 |
| 39 | 6" 22A Aggregate Base | 0 | SYD | \$8.00 | \$0.00 |
| 40 | 18MA Pavement (330M ² /yd) | 560 | TON | \$72.00 | \$40,320.00 |
| 41 | 18MA Approach | 41 | TON | \$110.00 | \$4,510.00 |
| 42 | 18MA Curb | 0 | LFT | \$3.00 | \$0.00 |
| 43 | 5" Concrete Drive Approach | 2,420 | SFT | \$5.50 | \$13,310.00 |
| 44 | 8" Concrete Sidewalk | 1,300 | SFT | \$5.50 | \$7,150.00 |
| 45 | 4" Concrete Sidewalk | 3,335 | SFT | \$12.00 | \$39,990.00 |
| 46 | Concrete Curb & Detail, Modified Detail F.4 | 0 | LFT | \$15.00 | \$0.00 |
| 47 | Traffic Control and Signage | 1.0 | LSUM | \$1,000.00 | \$1,000.00 |
| 48 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 |
| 49 | Infiltration Systems, Precast | 1 | LSUM | \$1,500.00 | \$1,500.00 |
| 50 | Perennial Marking | 1 | LSUM | \$1,500.00 | \$1,500.00 |
| 51 | Restoration 3" Topsoil and Class A Seed | 6,050 | SYD | \$4.00 | \$24,200.00 |
| SUBTOTAL= | | | | | \$748,018.00 |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$102,003.75 |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$850,021.75 |

Cost Opinion based on 2013 Construction

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CITY OF BOYNE CITY
 Gravel Streets Bidding
 Preliminary Opinion of Probable Construction Costs

Project Area - Collins Street from East Street east to Jefferson Street

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|-------------------------------------|---|--------------------|-----------|-------------|--------------|---|
| 1 | Mobilation 10% Mat | 1 | LSUM | \$15,000.00 | \$15,000.00 | |
| 2 | Adjust Drainage Structure or Manhole | 2 | EACH | \$350.00 | \$700.00 | 2 |
| 3 | Adjust Water Valve or WSO | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 6 | Cleaning & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Underneath Type II (includes sand bedding) | 1,650 | CYD | \$12.00 | \$19,800.00 | 22250sf x 2 ft deep/27 |
| 10 | Geotextile Substrate | 2,475 | SYD | \$2.69 | \$6,658.50 | 2475 |
| 11 | Underdrain, Subgrade, 6 inch | 1,400 | LFT | \$5.00 | \$7,000.00 | 760, 700 |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6 inch | 4 | EACH | \$300.00 | \$1,200.00 | 4 |
| 14 | Water Main, 8" PVC DDI 18 | 735 | LFT | \$30.00 | \$22,050.00 | 685, 20' stub, 30' stub to north of Jefferson |
| 15 | Water Valve, 8" | 4 | EACH | \$1,000.00 | \$4,000.00 | 4 |
| 16 | Water Main Relocation Detail | 1 | EACH | \$1,200.00 | \$1,200.00 | Assume 1 |
| 17 | 1" dia Tapping Saddle and Corporation Stop | 8 | EACH | \$200.00 | \$1,600.00 | 6 lots (4 + 2 on north side) |
| 18 | Water Service, 1" Type K Copper | 240 | LFT | \$20.00 | \$4,800.00 | 6 at 40' each |
| 19 | Curb Stop & Box, 1 inch | 0 | EACH | \$225.00 | \$0.00 | 6 lots (4 + 2 on north side) |
| 20 | Connect to Existing Water Lead | 3 | EACH | \$500.00 | \$1,500.00 | 3 exist homes |
| 21 | Connect to Existing Water Main | 2 | EACH | \$1,500.00 | \$3,000.00 | 2 |
| 22 | Flx Hydrant Assembly | 2 | EACH | \$5,000.00 | \$10,000.00 | Replace 2 existing hydr |
| 23 | Tap & Connect to Existing Sanitary Manhole | 1 | EACH | \$500.00 | \$500.00 | Connect to B268 at new home |
| 24 | 4" dia Sanitary Manhole including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 25 | 6" dia PVC SDR 35 Sanitary Sewer | 400 | LFT | \$30.00 | \$12,000.00 | 400 to Jefferson |
| 26 | 8" dia Sanitary Sewer Manhole | 4 | EACH | \$120.00 | \$480.00 | 4 |
| 27 | 5" dia PVC SDR 35 Sanitary Sewer Lead | 100 | LFT | \$22.00 | \$2,200.00 | 5-33 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 29 | 3" dia Catch Basin including Casting | 4 | EACH | \$1,700.00 | \$6,800.00 | 4 |
| 30 | 4" dia Catch Basin including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 24" dia Storm Sewer | 3 | EACH | \$2,000.00 | \$6,000.00 | 3 @ low point, for stubs and at end of sewer |
| 32 | 18" dia Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" dia Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" dia Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" dia Storm Sewer | 492 | LFT | \$25.00 | \$12,300.00 | 280, 30' stub, 30' stub, 55, 6 p |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | 1 |
| 37 | Machine Grading Modified | 7.0 | SFA | \$2,000.00 | \$14,000.00 | 7 |
| 38 | 6" 22A Aggregate Shoulder | 180 | SYD | \$3.00 | \$540.00 | 180 for drives |
| 39 | 6" 22A Aggregate Base | 2,475 | SYD | \$3.00 | \$7,425.00 | 22250sf using 08068B but not sava09 |
| 40 | 6" 22A Aggregate Base | 0 | SYD | \$3.00 | \$0.00 | 0 |
| 41 | HMA Pavement (330M37) | 430 | TON | \$120.00 | \$51,600.00 | 2475 syds, 330#/syd + 5% |
| 42 | HMA Approach | 21 | TON | \$110.00 | \$2,310.00 | estimate 4 drives (20' wide * 20 ft long), 180 syd, 220#/syd, 16% |
| 43 | HMA Curb | 0 | LFT | \$3.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 0 | SFT | \$5.50 | \$0.00 | 0 |
| 45 | 5" Concrete Sidewalk | 420 | SFT | \$5.50 | \$2,310.00 | 4 drives all gov per city survey (4' x 20' long each 8' wide) |
| 46 | 4" Concrete Sidewalk | 3,420 | SFT | \$4.00 | \$13,680.00 | north side only 760' 6" - (6' sidewalk) |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 150 | SFT | \$12.00 | \$1,800.00 | estimate 2 locations @ 6' x 15' |
| 48 | Concrete Curb & Gutter, Modified Detail P-4 | 1,390 | LFT | \$15.00 | \$20,850.00 | 685 * 2 |
| 49 | Traffic Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 | 1 |
| 50 | Erosion Control Measures | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 51 | Utilities Systems, Protect | 0 | LSUM | \$1,600.00 | \$0.00 | 1 |
| 52 | Pavement Marking | 1 | LSUM | \$1,600.00 | \$1,600.00 | centerline stripes and parking stripes to match 08068B |
| 53 | Restoration, 3" Topsoil and Class A Sand | 1,655 | SYD | \$4.00 | \$6,620.00 | 2(10' 700)9 |
| SUBTOTAL = | | | | | \$264,124.50 | |
| 10% CONTINGENCY + 15% ENGINEERING = | | | | | \$35,316.13 | |
| ESTIMATED TOTAL PROJECT COST = | | | | | \$317,705.00 | |

Cost Opinion based on 2013 Construction

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CITY OF ROYAL OAK
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Grove Street from Groveland Street north to dead end

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|-------------------------------------|---|--------------------|-----------|-------------|-------------|--|
| 1 | Verification 10K Man | 1 | LSUM | \$5,300.00 | \$5,300.00 | |
| 2 | Adjust Drainage Structure or Manhole | 2 | EACH | \$350.00 | \$700.00 | 1 man and 1 storm |
| 3 | Adjust Water Valve or WED | 2 | EACH | \$150.00 | \$300.00 | 2 valves |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Grading & Grubbing | 0.0 | ACRE | \$1,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embarkment | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Undercutting Type II (includes sand bedding) | 0 | CYD | \$12.00 | \$0.00 | 0 |
| 10 | Geotextile Stabilization | 0 | SYD | \$2.00 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 6 inch | 0 | LFT | \$5.00 | \$0.00 | 0 |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6 inch | 0 | EACH | \$300.00 | \$0.00 | 0 |
| 14 | Water Main, 6" PVC GR 10 | 200 | LFT | \$28.00 | \$5,600.00 | 200 |
| 15 | Water Valve, 6" | 1 | EACH | \$350.00 | \$350.00 | 1 |
| 16 | Water Main Relocation Detail | 2 | EACH | \$1,200.00 | \$2,400.00 | 2 |
| 17 | 1" Dia. Tapping Sockets and Corporation Stop | 2 | EACH | \$200.00 | \$400.00 | 2 |
| 18 | Water Service, 1" Type K Copper | 80 | LFT | \$20.00 | \$1,600.00 | 80, 50 |
| 19 | Curb Stop & Box, 1 inch | 2 | EACH | \$225.00 | \$450.00 | 2 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 1 | EACH | \$1,500.00 | \$1,500.00 | 1 |
| 22 | Fire Hydrant Assembly | 1 | EACH | \$2,500.00 | \$2,500.00 | 1 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 1 | EACH | \$500.00 | \$500.00 | Connect to MH SH-B263 |
| 24 | 4" Dia. Sanitary Manhole Including Casing | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 25 | 6" Dia. PVC SDR-35 Sanitary Sewer | 200 | LFT | \$30.00 | \$6,000.00 | 200 |
| 26 | 6" Dia. Sanitary Sewer Wye | 2 | EACH | \$120.00 | \$240.00 | 2 |
| 27 | 6" Dia. PVC SDR-35 Sanitary Sewer Lead | 68 | LFT | \$32.00 | \$2,176.00 | 33, 35 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 7" Dia. Catch Basin Including Casing | 1 | EACH | \$11,700.00 | \$11,700.00 | 1 |
| 30 | 4" Dia. Catch Basin Including Casing | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 31 | 4" Dia. Storm Manhole Including Casing | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 60 | LFT | \$25.00 | \$1,500.00 | 60 |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | Connect to MH SH-11110 |
| 37 | Medicine Grading, Modified | 2.5 | SIA | \$2,200.00 | \$4,250.00 | 2.5 increased to \$2500 to include clearing at north end |
| 38 | 6" 23A Aggregate Shoulder | 135 | SYD | \$5.00 | \$675.00 | 135 for drives |
| 39 | 6" 22A Aggregate Base | 690 | SYD | \$5.00 | \$3,450.00 | 690 for |
| 40 | 6" 22B Aggregate Base | 0 | SYD | \$8.00 | \$0.00 | 0 |
| 41 | HMA Paved (1320/syd) | 88 | TON | \$170.00 | \$14,960.00 | (1450)h, 330#/syd + 6% |
| 42 | HMA Approach | 18 | TON | \$1,200.00 | \$21,600.00 | 3 drives (20' wide * 20' long), 136 syd, 2200/syd, +6% |
| 43 | HMA Curb | 600 | LFT | \$3.00 | \$1,800.00 | 200 + 200 + 60 + 60 |
| 44 | 6" Concrete Drive Approach | 0 | SFT | \$5.00 | \$0.00 | 0 |
| 45 | 6" Concrete Sidewalk | 0 | SFT | \$5.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified Detail I-4 | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 49 | TrasCo Control and Signal | 0.5 | LSUM | \$2,000.00 | \$1,000.00 | 0.5 |
| 50 | Flexion Control Manhole | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Irrigation System, Prebid | 0.5 | LSUM | \$1,500.00 | \$750.00 | 0.5 |
| 52 | Painted Marking | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Seed | 335 | SYD | \$4.00 | \$1,340.00 | 270 * 200' * 9 |
| SUBTOTAL = | | | | | \$58,017.00 | |
| 10% CONTINGENCY + 15% ENGINEERING = | | | | | \$14,504.25 | |
| ESTIMATED TOTAL PROJECT COST = | | | | | \$72,521.25 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYNE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Ottawa Street from Groveland Street north to dead end

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|-------------------------------------|---|--------------------|-----------|------------|--------------------|--|
| 1 | Mobilization 10% Max | 1 | LSUM | \$4,800.00 | \$4,800.00 | |
| 2 | Adjust Manhole Structure or Manhole | 3 | EACH | \$350.00 | \$1,050.00 | 1 man and 2 storm |
| 3 | Adjust Water Valve or WSO | 3 | EACH | \$250.00 | \$750.00 | 3 valves |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | CYD | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$3.85 | \$0.00 | 0 |
| 8 | Crack Infillment | 0 | CYD | \$3.00 | \$0.00 | 0 |
| 9 | Subgrade Underlayment, Type 3 (includes sand bed 1/2) | 665 | CYD | \$12.00 | \$8,280.00 | 7676sq' 2/2/27 |
| 10 | Gasoline Substitution | 826 | SYD | \$2.80 | \$2,312.80 | 7676sq' |
| 11 | Underdrain, 6" x 6" x 6" inch | 620 | LFT | \$3.00 | \$1,860.00 | 260, 260 |
| 12 | Underdrain, Outlet Endcap, 6" inch | 0 | EACH | \$180.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6" inch | 2 | EACH | \$300.00 | \$600.00 | 2 |
| 14 | Water Main, 6" PVC DR 18 | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 15 | Water Valve, 6" | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia. Tapping Soda and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 18 | Water Service, 1" Type K Copper | 0 | LFT | \$20.00 | \$0.00 | 0 |
| 19 | Curb Stop & Box, 1 inch | 0 | EACH | \$225.00 | \$0.00 | 0 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 0 | EACH | \$1,600.00 | \$0.00 | 0 |
| 22 | Flap Inlet Assembly | 0 | EACH | \$5,500.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia. Sanitary Manhole including Casing | 0 | EACH | \$7,000.00 | \$0.00 | 0 |
| 25 | 3" Dia. PVC SDR 35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 26 | 3" Dia. Sanitary Sewer Wye | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 3" Dia. PVC SDR 35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 3" Dia. Catch Basin including Casing | 1 | EACH | \$1,200.00 | \$1,200.00 | 1 |
| 30 | 4" Dia. Catch Basin including Casing | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 31 | 12" Dia. Storm Manhole including Casing | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 32 | 14" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 60 | LFT | \$25.00 | \$1,500.00 | 60 |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | Connect to MH ST-111108 |
| 37 | Machine Grading, Modified | 2.7 | STA | \$2,000.00 | \$5,400.00 | 2.7 |
| 38 | 6" 22A Aggregate Shoulder | 270 | SYD | \$5.00 | \$1,350.00 | 270 for drives |
| 39 | 5" 22A Aggregate Base | 760 | SYD | \$5.00 | \$3,800.00 | 6845sq' |
| 40 | 4" 22A Aggregate Base | 0 | SYD | \$5.00 | \$0.00 | 0 |
| 41 | HWA Pavement (30W/tyd) | 112 | TON | \$70.00 | \$7,840.00 | 6765sq, 330W/tyd + 5% |
| 42 | HWA Approach | 22 | TON | \$110.00 | \$2,420.00 | 6 drives (50' wide * 20 ft long), 270 syd, 226W/tyd, +5% |
| 43 | HWA Curb | 620 | LFT | \$3.00 | \$1,860.00 | 260 + 260 + 60 + 60 |
| 44 | 3" Concrete Drive Approach | 0 | SFT | \$3.00 | \$0.00 | 0 |
| 45 | 6" Concrete Sidewalk | 0 | SFT | \$3.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$3.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Outer, Modified Detail F-4 | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 49 | Traffic Control and Storage | 0.5 | LSUM | \$2,000.00 | \$1,000.00 | 0.5 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Irrigation Systems, Project | 0.5 | LSUM | \$1,500.00 | \$750.00 | 0.5 |
| 52 | Permanent Marking | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 53 | Restoration, 3" Topsoil and Grass A Seed | 485 | SYD | \$1.00 | \$485.00 | 2 (8' x 60') 0 |
| SUBTOTAL | | | | | \$62,772.80 | |
| 10% CONTINGENCY + 16% ENGINEERING | | | | | \$13,183.13 | |
| ESTIMATED TOTAL PROJECT COST | | | | | \$75,955.93 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYHE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Union Street from Vogel south to Edwin, Edwin Street from Union and west 200 ft.

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|--------------------------------------|---|--------------------|-----------|------------|---------------------|--|
| 1 | Mobile phone, 1001 MHz | 1 | LSUM | \$9,400.00 | \$9,400.00 | |
| 2 | Adjust Existing Structure or Manhole | 2 | EACH | \$350.00 | \$700.00 | 2 Man |
| 3 | Adjust Water Valve or VSD | 0 | EACH | \$250.00 | \$0.00 | 0 |
| 4 | Increase Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | AGRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embarkment | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Underpaving, Type B (includes sand backfill) | 785 | CYD | \$12.00 | \$9,420.00 | 101501R 22W7 |
| 10 | Rebar in Subpaving | 1,150 | STD | \$2.00 | \$2,300.00 | 101501R |
| 11 | Underdrain, Subgrade, 8 inch | 750 | LFT | \$5.00 | \$3,750.00 | 101501R |
| 12 | Underdrain, Open Ending, 8 inch | 0 | EACH | \$180.00 | \$0.00 | 365, 365 |
| 13 | Underdrain, Closed Top to CB, 8 inch | 0 | EACH | \$300.00 | \$0.00 | 4 |
| 14 | Water Main, 6" PVD DR 18 | 355 | LFT | \$28.00 | \$9,940.00 | 355 |
| 15 | Water Valve, 6" | 1 | EACH | \$850.00 | \$850.00 | 1 @ Vogel |
| 16 | Water Main Rehabilitation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia Tapping Sleeve and Corporation Stop | 3 | EACH | \$200.00 | \$600.00 | 3 |
| 18 | Water Service, 1" Type K Copper | 20 | LFT | \$20.00 | \$400.00 | 20, 20, 40 |
| 19 | Flare Stop & Box, 1 inch | 3 | EACH | \$225.00 | \$675.00 | 3 |
| 20 | Connect to Existing Water Lead | 3 | EACH | \$500.00 | \$1,500.00 | 3 (2 on Edwin, 1 on Union) |
| 21 | Connect to Existing Water Main | 1 | EACH | \$1,500.00 | \$1,500.00 | 1 @ Vogel |
| 22 | Flare Hydrant Assembly | 1 | EACH | \$2,500.00 | \$2,500.00 | 1 at west end of Edwin |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia Sanitary Manhole including Casing | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 west end of Edwin |
| 25 | 6" Dia PVD SDR 35 Sanitary Sewer | 0 | LFT | \$50.00 | \$0.00 | 0 |
| 26 | 6" Dia Sanitary Sewer Wye | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 6" Dia PVD SDR 35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2" Dia Catch Basin including Casing | 2 | EACH | \$1,700.00 | \$3,400.00 | 2 @ Union/Edwin Intersection, 0 at Vogel for it is high spot |
| 30 | 4" Dia Catch Basin including Casing | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4" Dia Storm Manhole including Casing | 2 | EACH | \$2,000.00 | \$4,000.00 | 2 (1 in Vogel & 1 at Union/Edwin Intersection) |
| 32 | 24" Dia Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia Storm Sewer | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | 1 connect to exist, new MH over existing 15" on Vogel |
| 37 | Machine Grading, Modified | 3.7 | STA | \$4,000.00 | \$14,800.00 | 3.7 increase until cost is 4000/sta to raise Union/Edwin Intersection? |
| 38 | 6" 22A Aggregate Shoulder | 135 | SYD | \$5.00 | \$675.00 | 135 for drives |
| 39 | 6" 22A Aggregate Base | 690 | SYD | \$5.00 | \$3,450.00 | 690 for |
| 40 | 6" 22A Aggregate Sub | 0 | SYD | \$8.00 | \$0.00 | 0 |
| 41 | HMA Pavement (300m/s) | 145 | TON | \$70.00 | \$10,150.00 | 7451R, 3300/syd + 5% |
| 42 | HMA Approach | 16 | TON | \$110.00 | \$1,760.00 | 3 drives (20' wide * 20 ft long), 135 syd, 2200/syd, +5% |
| 43 | HMA Curb | 630 | LFT | \$3.00 | \$1,890.00 | 395 + 305 + 60 + 50 |
| 44 | 5" Concrete Drive Approach | 0 | SFT | \$15.00 | \$0.00 | 0 |
| 45 | 5" Concrete Sidewalk | 0 | SFT | \$15.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Sidewalk Edge ADA (incl. detectable warning surface) | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified Detail F-4 | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 49 | Traffic Control and Signage | 10 | LSUM | \$2,000.00 | \$20,000.00 | 1 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Irrigation Systems, Protect | 1 | LSUM | \$1,500.00 | \$1,500.00 | 1 |
| 52 | Planting Material | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Seed | 650 | SYD | \$1.00 | \$650.00 | 2 (8'355)3 |
| SUBTOTAL= | | | | | \$183,415.00 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$21,801.80 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$205,216.80 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYNE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Taylor Street from State Street north to Rotary Park.

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|------------------------------------|--|--------------------|-----------|------------|--------------|--|
| 1 | Unobstruction, 12% Vat | 1 | LSUM | \$9,700.00 | \$9,700.00 | |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 3 | Adjust Water Valve or WSO | 0 | EACH | \$250.00 | \$0.00 | 0 |
| 4 | Reconstruct Drainage Structure of Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 9 | Subgrade (Incl. Subsoil, Type II) (excludes sand backfill) | 450 | CYD | \$12.00 | \$5,400.00 | 066568' 27x27 |
| 10 | Gravel Sub-Base | 730 | SYD | \$2.50 | \$1,825.00 | 065658' |
| 11 | Underdrain, 8" Aggregate, 6" Inch | 430 | LFT | \$5.00 | \$2,150.00 | 215, 215 |
| 12 | Underdrain, Outlet Easing, 6" Inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6" Inch | 2 | EACH | \$300.00 | \$600.00 | 2 |
| 14 | Water Main, 6" PVC DR 18 | 216 | LFT | \$25.00 | \$5,400.00 | 216 |
| 15 | Water Valve, 6" | 1 | EACH | \$850.00 | \$850.00 | 1 @ State |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia. Tapping Saddle and Corporation Stop | 2 | EACH | \$200.00 | \$400.00 | 2 |
| 18 | Water Service, 1" Type K Copper | 60 | LFT | \$20.00 | \$1,200.00 | 25, 25 |
| 19 | Curb Stop & Box, 1" Inch | 2 | EACH | \$225.00 | \$450.00 | 2 |
| 20 | Connect to Existing Water Lead | 2 | EACH | \$500.00 | \$1,000.00 | 2 |
| 21 | Connect to Existing Water Main | 1 | EACH | \$1,500.00 | \$1,500.00 | 1 @ State |
| 22 | Final Inlet Assembly | 1 | EACH | \$2,800.00 | \$2,800.00 | 1 @ north end |
| 23 | Tap & Connect to Existing Sanitary Manhole | 1 | EACH | \$300.00 | \$300.00 | 1 connect to exist pipe outside of MDOT ROW |
| 24 | 4" Dia. Sanitary Manhole Including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 north end |
| 25 | 4" Dia. PVC SDR-35 Sanitary Sewer | 215 | LFT | \$20.00 | \$4,300.00 | 215 |
| 26 | 4" Dia. Sanitary Street Valve | 2 | EACH | \$120.00 | \$240.00 | 2 |
| 27 | 6" Dia. PVC SDR-35 Sanitary Street Lead | 66 | LFT | \$22.00 | \$1,452.00 | 33, 33 |
| 28 | Connect to Existing Sewer Lead | 2 | EACH | \$500.00 | \$1,000.00 | 2 |
| 29 | 2" Dia. Catch Basin Including Casting | 3 | EACH | \$1,700.00 | \$5,100.00 | 2 @ State & 1 ditch Inlet |
| 30 | 4" Dia. Catch Basin Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4" Dia. Storm Manhole Including Casting | 2 | EACH | \$2,000.00 | \$4,000.00 | 2 (1 north and 1 south) |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 235 | LFT | \$25.00 | \$5,875.00 | 170, 90, 15, 15, 25 to tie in |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | 1 connect to exist ST-R1800 |
| 37 | Manhole Grating, Modded | 2.6 | STA | \$1,000.00 | \$2,600.00 | 2 @ |
| 38 | 6" 22A Aggregate Base | 67 | SYD | \$5.00 | \$335.00 | 67 by drives |
| 39 | 6" 22A Aggregate Base | 370 | SYD | \$5.00 | \$1,850.00 | 5110sR |
| 40 | 6" 22A Aggregate Base | 0 | SYD | \$0.00 | \$0.00 | 0 |
| 41 | HMA Pavement (3304/syd) | 100 | TON | \$70.00 | \$7,000.00 | 5110sR, 3304/syd + 5% |
| 42 | HMA Approach | 8 | TON | \$110.00 | \$880.00 | 1 drive (30' wide * 20 ft long), 67 syd, 220R/syd, 15% |
| 43 | HMA Curb | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 300 | SFT | \$5.50 | \$1,650.00 | 1 drive (15' wide * 20 ft long) |
| 45 | 5" Concrete Sidewalk | 0 | SFT | \$5.00 | \$0.00 | 0 |
| 46 | 6" Concrete Sidewalk | 1,075 | SFT | \$4.00 | \$4,300.00 | 216 east side only |
| 47 | Sidewalk Ramp, ADA (incl. acceptable warning surface) | 150 | SFT | \$12.00 | \$1,800.00 | estimate 2 locations @ 6' x 15' |
| 48 | Concrete Curb & Gutter, Modded Detail F-4 | 430 | LFT | \$18.00 | \$7,740.00 | 216, 216 |
| 49 | Truss Control and Supports | 10 | LSUM | \$2,000.00 | \$20,000.00 | 1 |
| 50 | Enroll Control Assembly | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Impaction Surface, Project | 0.5 | LSUM | \$1,500.00 | \$750.00 | 0.5 |
| 52 | Perennial Mowing | 0 | LSUM | \$1,600.00 | \$0.00 | 0 |
| 53 | Restoration, 3" Topsoil and Grass Seed | 433 | SYD | \$4.00 | \$1,732.00 | 2(9'254)9 |
| SUBTOTAL= | | | | | \$95,852.00 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$23,576.50 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$119,428.50 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYNE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Call Street from Vogel north to City Limit

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|------------------------------------|---|--------------------|-----------|-------------|--------------|--|
| 1 | Rebar/Steel Jct. Mass | 1 | LSUM | \$28,800.00 | \$28,800.00 | |
| 2 | Adjust Drainage Structure or Manhole | 4 | EACH | \$350.00 | \$1,400.00 | exist storm m/h |
| 3 | Adjust Valve or VSD | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Undercutting, Type II (includes sand backfill) | 2,800 | CUY | \$12.00 | \$33,600.00 | 1350' 28' 28' 27' |
| 10 | Grout the Substation | 3,900 | STD | \$2.80 | \$10,740.00 | 1350' * 26' 9' |
| 11 | Underdrain, Subgrade, 6 inch | 2,700 | LF | \$5.00 | \$13,500.00 | 1350', 1350' |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Top to C&B, 8 inch | 0 | EACH | \$300.00 | \$0.00 | 0 |
| 14 | Water Main, 12" PVC DR 18 | 0 | LF | \$65.00 | \$0.00 | 0 |
| 15 | Water Valve, 12" | 0 | EACH | \$1,700.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia Tapping Saddle and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 18 | Whore Service, 1" Type K Copper | 0 | LF | \$20.00 | \$0.00 | 0 |
| 19 | Curb Stop & Box, 1 inch | 0 | EACH | \$225.00 | \$0.00 | 0 |
| 20 | Connect To Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect To Existing Water Main | 0 | EACH | \$1,900.00 | \$0.00 | 0 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,800.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 24 | 4" Dia Sanitary Manhole Including Casing | 0 | EACH | \$1,900.00 | \$0.00 | 0 |
| 25 | 12" Dia PVC SDR-35 Sanitary Sewer | 0 | LF | \$30.00 | \$0.00 | 0 |
| 26 | 12" Dia Sanitary Sewer Valve | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 3" Dia PVC SDR-35 Sanitary Sewer Lead | 0 | LF | \$22.00 | \$0.00 | 0 |
| 28 | Connect To Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2" Dia Catch Basin Including Casing | 4 | EACH | \$1,700.00 | \$6,800.00 | 4 new cb's |
| 30 | 4" Dia Catch Basin Including Casing | 8 | EACH | \$2,000.00 | \$16,000.00 | 4 new cb's & 1 new near south end to pick up existing ditching + 3 at Vogel intersection |
| 31 | 4" Dia Storm Manhole Including Casing | 2 | EACH | \$2,000.00 | \$4,000.00 | 2, new in Vogel and one counted for outlet at Rotary Park |
| 32 | Construct New Retention Basin in Rotary Park | 1 | EACH | \$23,000.00 | \$23,000.00 | 1 |
| 33 | 18" Dia Storm Saver | 300 | LF | \$35.00 | \$10,500.00 | From exist structure ST-RK900 to outlet at Rotary Park |
| 34 | 15" Dia Storm Saver | 0 | LF | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia Storm Saver | 200 | LF | \$25.00 | \$5,000.00 | 4(25' + 25') + 25' to pick up exist ditch on east side |
| 36 | Tap & Connect to Existing Storm Manhole | 4 | EACH | \$500.00 | \$2,000.00 | Connect to exist ST-RK900, ST-RK901, ST-RK902, ST-RK903, |
| 37 | Machine Grading, Modified | 16.2 | STA | \$2,000.00 | \$32,400.00 | 13.2 + 3 for storm outlet |
| 38 | 6" 22A Aggregate Shoulder | 215 | STD | \$5.00 | \$1,075.00 | 225 for drives |
| 39 | 6" 22A Aggregate Base | 3,300 | STD | \$5.00 | \$16,500.00 | 1350' * 22' 9" |
| 40 | 6" 22A Aggregate Base | 0 | STD | \$5.00 | \$0.00 | 0 |
| 41 | HMA Pavement (130M/syd) | 375 | TON | \$70.00 | \$26,250.00 | 3300 syds, 3300/syd + 6% |
| 42 | HMA Approach | 28 | TON | \$110.00 | \$3,080.00 | assume 5 drive (20' wide * 20 ft long), 225 syd, 220/syd, 16% |
| 43 | HMA Curb | 0 | LF | \$3.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 2,000 | SFT | \$5.50 | \$11,000.00 | assume 6 drive (20' wide * 20 ft long) |
| 45 | 6" Concrete Sidewalk | 0 | SFT | \$5.50 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Concrete Ramp, ADA (incl. detectable warning surface) | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Outlet, Mod End Detail F-4 | 2,740 | LF | \$15.00 | \$41,100.00 | 1320, 1320, 50, 50 |
| 49 | Traffic Control and Signage | 10 | LSUM | \$2,000.00 | \$20,000.00 | 1 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Integration of Plans, Printed | 1 | LSUM | \$1,500.00 | \$1,500.00 | 1 |
| 52 | Parametric Modeling | 0 | LSUM | \$1,600.00 | \$0.00 | 0 |
| 53 | Restriction 3" Topsoil and Chis A Sand | 2,935 | STD | \$4.00 | \$11,740.00 | 2(10' * 1320) / 9 |
| SUBTOTAL= | | | | | \$317,976.00 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$75,481.25 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$393,457.25 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYNE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Spring Street from Oak Street west to Jefferson Street.

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|--------------------------------------|---|--------------------|-----------|-------------|---------------------|--|
| 1 | Rebar for 10% Mar | 1 | LSUM | \$27,600.00 | \$27,600.00 | |
| 2 | Adjust Drainage Structure or Manhole | 1 | EACH | \$350.00 | \$350.00 | 1 |
| 3 | Adjust Water Valve or VSD | 0 | EACH | \$250.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$400.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,600.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 9 | Subgrade Underdrain, Type II (excludes sand backfill) | 0 | CYD | \$12.00 | \$0.00 | 0 |
| 10 | Geotextile Stabilization | 0 | SYD | \$2.00 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 6 Inch | 0 | LFT | \$5.00 | \$0.00 | 0 |
| 12 | Underdrain, Outlet Ending, 6 Inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6 Inch | 0 | EACH | \$300.00 | \$0.00 | 0 |
| 14 | Water Main, 6" PVC DR 15 | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 15 | Water Main, 6" | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 16 | Water Main Restoration Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia. Tapping 6 Inch and Compression Pipe | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 18 | Water Service, 1" Type K Copper | 0 | LFT | \$20.00 | \$0.00 | 0 |
| 19 | Curb Stop & Box, 1 Inch | 0 | EACH | \$225.00 | \$0.00 | 0 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 0 | EACH | \$1,600.00 | \$0.00 | 0 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,600.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia. Sanitary Manhole Including Catching | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 25 | 3" Dia. PVC SUR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 26 | 30" Sanitary Sewer Wye | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 3" Dia. PVC SUR-35 Sanitary Sewer Lead | 0 | LFT | \$12.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2' Dia. Catch Basin Including Catching | 10 | EACH | \$1,200.00 | \$12,000.00 | 10 |
| 30 | 4' Dia. Catch Basin Including Catching | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 6' Dia. Storm Manhole Including Catching | 5 | EACH | \$3,000.00 | \$15,000.00 | 5 |
| 32 | 36" Dia. Storm Sewer | 1000 | LFT | \$25.00 | \$25,000.00 | 1000 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 200 | LFT | \$25.00 | \$5,000.00 | 10 cbs * 20' each |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$300.00 | \$300.00 | 1 |
| 37 | Manhole Grading, Modified | 10.0 | SFA | \$2,000.00 | \$20,000.00 | 10 |
| 38 | 4" 22A Aggregate Shoulder | 45 | SYD | \$4.00 | \$180.00 | 45 lvs drives |
| 39 | 6" 22A Aggregate Base | 2,220 | SYD | \$5.00 | \$11,100.00 | 24" 100%R + 2% |
| 40 | 4" 22A Aggregate Base | 0 | SYD | \$8.00 | \$0.00 | 0 |
| 41 | IRMA Paved (3300/yr) | 475 | TON | \$70.00 | \$33,250.00 | 24" 100%R + 2%, 330#/syd + 6% |
| 42 | IRMA Approach | 6 | TON | \$170.00 | \$1,020.00 | 1 drive (20' wide * 20' R long), 45 syd, 220#/syd, +5% |
| 43 | IRMA Curb | 0 | LFT | \$3.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 0 | SFT | \$5.00 | \$0.00 | 0 |
| 45 | 5" Concrete Sidewalk | 100 | SFT | \$5.00 | \$500.00 | (20' W) |
| 46 | 4" Concrete Sidewalk | 4,800 | SFT | \$1.00 | \$4,800.00 | 1000' S - (100) |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 300 | SFT | \$12.00 | \$3,600.00 | estimate 4 locations @ 5' x 15' |
| 48 | Concrete Curb & Chute, Modified Detail A | 2,000 | LFT | \$15.00 | \$30,000.00 | 1000, 1000 |
| 49 | Utility Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 | 1 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Infiltration Systems, Probol | 1 | LSUM | \$1,500.00 | \$1,500.00 | 1 |
| 52 | Pavement Marking | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Sand | 2,225 | SYD | \$4.00 | \$8,900.00 | 2(10' 1000)P |
| SUBTOTAL- | | | | | \$276,234.00 | |
| 10% CONTINGENCY + 15% ENGINEERING- | | | | | \$48,838.76 | |
| ESTIMATED TOTAL PROJECT COST- | | | | | \$325,072.76 | |

Cost Opinion based on 2013 Construction



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CITY OF BOYRE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Main Street from Forest Alley to Main Street

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|--------------------------------------|--|--------------------|-----------|------------|--------------------|--|
| 1 | Mobilization, 10% Mat | 1 | LSUM | \$9,000.00 | \$9,000.00 | |
| 2 | Agent Drainage Structure or Manhole | 1 | EACH | \$520.00 | \$520.00 | 1 |
| 3 | Agent Water Valve or WSO | 0 | EACH | \$199.00 | \$0.00 | 0 |
| 4 | Removal Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Removal Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Undercutting Type II (includes sand backfill) | 0 | CYD | \$12.00 | \$0.00 | 0 |
| 10 | Base/Bed Stabilization | 0 | SYD | \$3.00 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 6 inch | 0 | LFT | \$5.00 | \$0.00 | 0 |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$180.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CR, 6 inch | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 14 | Water Main, 8" PVC DIT 10 | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 15 | Water Valve, 8" | 0 | EACH | \$850.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia. Tapping Sleeve and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 18 | Water Service, 1" Type M Copper | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 19 | Curb Stop & Box, 1 inch | 0 | EACH | \$225.00 | \$0.00 | 0 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 0 | EACH | \$1,500.00 | \$0.00 | 0 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,500.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia. Sanitary Manhole Including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 for Forest, from sanitary study |
| 25 | 8" Dia. PVC SDR35 Sanitary Sewer | 33 | LFT | \$30.00 | \$990.00 | 33 shub for alley |
| 26 | 8" Dia. Sanitary Sewer Wye | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 6" Dia. PVC SDR35 Sanitary Sewer Lead | 0 | LFT | \$12.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 7" Dia. Catch Basin Including Casting | 2 | EACH | \$1,700.00 | \$3,400.00 | 2 |
| 30 | 6" Dia. Catch Basin Including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 for outlet of new 36" storm |
| 31 | 6" Dia. Storm Manhole Including Casting | 2 | EACH | \$3,000.00 | \$6,000.00 | 2 total, 1 each end |
| 32 | 36" Dia. Storm Sewer | 229 | LFT | \$78.00 | \$18,000.00 | per storm study |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 18" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 219 | LFT | \$28.00 | \$6,132.00 | 2 cbs + 20' each + 210 + 20 to connect to exist ST-RK104 |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | 1 to exist ST-RK104 |
| 37 | Machine Grading, Modified | 8.0 | SFA | \$2,000.00 | \$12,000.00 | 3 + 3 along curb for storm outlet |
| 38 | 5" 22A Aggregate Shoulder | 45 | SYD | \$3.00 | \$135.00 | 45 for ditches |
| 39 | 5" 22A Aggregate Base | 600 | SYD | \$5.00 | \$3,000.00 | 24' 220sh + 2% |
| 40 | 5" 22A Aggregate Base | 0 | SYD | \$6.00 | \$0.00 | 0 |
| 41 | ISMA Pavement (330M/y) 2 | 105 | TON | \$70.00 | \$7,350.00 | 24' 220sh + 2%, 330#/syd + 6% |
| 42 | ISMA Approach | 6 | TON | \$110.00 | \$660.00 | 1 dirva (20' wide * 20 ft long), 45 syd, 220#/syd, +5% |
| 43 | ISMA Curb | 0 | LFT | \$3.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 0 | SFI | \$5.00 | \$0.00 | 0 |
| 45 | 5" Concrete Sidewalk | 100 | SFI | \$5.00 | \$500.00 | 0 |
| 46 | 4" Concrete Sidewalk | 1,100 | SFI | \$4.00 | \$4,400.00 | 220' 5 |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 150 | SFI | \$12.00 | \$1,800.00 | estimate 2 locations @ 5' x 15' |
| 48 | Concrete Curb & Outlet, Modified Detail F-4 | 509 | LFT | \$15.00 | \$7,635.00 | 220, 220, 80, 50 |
| 49 | Traffic Control and Signage | 0.6 | LSUM | \$2,000.00 | \$1,200.00 | 0.6 |
| 60 | Erosion Control Measures | 0.6 | LSUM | \$1,000.00 | \$600.00 | 0.6 |
| 61 | Lighting Systems, Pedestrian | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 52 | Pavement Marking | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restrip for 3" Topsoil and Class A Seed | 490 | SYD | \$4.00 | \$1,960.00 | 2(10' 220)9 |
| SUBTOTAL= | | | | | \$18,832.00 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$3,188.75 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$22,020.75 | |

Cost Opinion based on 2013 Construction



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CITY OF BOYNE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Forest Alley (Street) Main Street east to dead end.

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price |
|-------------------------------------|--|--------------------|-----------|------------|-------------|
| 1 | Utilization 10% Mat | 1 | LSUM | \$400.00 | \$400.00 |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 |
| 3 | Adjust Water Valve or WSO | 0 | EACH | \$250.00 | \$0.00 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 |
| 5 | Remove Tree | 0 | ACRB | \$4,000.00 | \$0.00 |
| 6 | Clearing & Grubbing | 0 | CYU | \$5.00 | \$0.00 |
| 7 | Excavation | 0 | CYD | \$8.00 | \$0.00 |
| 8 | Embankment | 0 | CYD | \$12.00 | \$0.00 |
| 9 | Subgrade Underdrain Type II (includes sand backfill) | 0 | LFT | \$15.00 | \$0.00 |
| 10 | Geotextile Stabilization | 0 | SYD | \$2.00 | \$0.00 |
| 11 | Underdrain, Subgrade, 6 inch | 0 | LFT | \$5.00 | \$0.00 |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$150.00 | \$0.00 |
| 13 | Underdrain, Outlet Tap in CB, 6 inch | 0 | EACH | \$300.00 | \$0.00 |
| 14 | Water Main, 6" PVC DR 18 | 0 | LFT | \$25.00 | \$0.00 |
| 15 | Water Valve, 6" | 0 | EACH | \$150.00 | \$0.00 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 |
| 17 | 1" Dia Tapping 5 inch and Corporation Stop | 0 | LFT | \$18.00 | \$0.00 |
| 18 | Water Service, 1" Type K Copper | 0 | EACH | \$25.00 | \$0.00 |
| 19 | Curb Stop & Box, 1 inch | 0 | EACH | \$50.00 | \$0.00 |
| 20 | Connect To Existing Water Lead | 0 | EACH | \$1,200.00 | \$0.00 |
| 21 | Connect To Existing Water Main | 0 | EACH | \$1,200.00 | \$0.00 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,500.00 | \$0.00 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 |
| 24 | 6" Dia Sanitary Manhole including Casing | 0 | EACH | \$7,000.00 | \$0.00 |
| 25 | 6" Dia PVC SDR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 |
| 26 | 6" Dia PVC SDR-35 Sanitary Sewer Valve | 0 | EACH | \$180.00 | \$0.00 |
| 27 | 6" Dia PVC SDR-35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 |
| 28 | Connect To Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 |
| 29 | 2" Dia Catch Basin including Casing | 0 | EACH | \$1,200.00 | \$0.00 |
| 30 | 4" Dia Catch Basin including Casing | 0 | EACH | \$2,000.00 | \$0.00 |
| 31 | 6" Dia Storm Manhole including Casing | 0 | EACH | \$3,000.00 | \$0.00 |
| 32 | 12" Dia Storm Sewer | 0 | LFT | \$75.00 | \$0.00 |
| 33 | 18" Dia Storm Sewer | 0 | LFT | \$15.00 | \$0.00 |
| 34 | 18" Dia Storm Sewer | 0 | LFT | \$30.00 | \$0.00 |
| 35 | 12" Dia Storm Sewer | 0 | LFT | \$25.00 | \$0.00 |
| 36 | Tap & Connect to Existing Storm Manhole | 0 | EACH | \$500.00 | \$0.00 |
| 37 | Manhole Chasing, Modified | 0 | SIA | \$2,000.00 | \$0.00 |
| 38 | 6" 22A Aggregate Shoulder | 0 | SYD | \$5.00 | \$0.00 |
| 39 | Chip Seal Roadway | 670 | SYD | \$3.00 | \$2,010.00 |
| 40 | 6" 22A Aggregate Base | 0 | SYD | \$0.00 | \$0.00 |
| 41 | HMA Pavement (3"ON/1.5") | 0 | TON | \$75.00 | \$0.00 |
| 42 | HMA Approach | 0 | TON | \$110.00 | \$0.00 |
| 43 | HMA Curb | 0 | LFT | \$3.00 | \$0.00 |
| 44 | 6" Concrete Drive Approach | 0 | SFT | \$18.00 | \$0.00 |
| 45 | 6" Concrete Sidewalk | 0 | SFT | \$5.00 | \$0.00 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 |
| 47 | Steeple Base, ADA (incl. detectable warning surface) | 0 | SFT | \$12.00 | \$0.00 |
| 48 | Concrete Curb & Gutter, Modified Detail F-4 | 0 | LFT | \$15.00 | \$0.00 |
| 49 | Erosion Control and Signage | 0.5 | LSUM | \$2,000.00 | \$1,000.00 |
| 50 | Erosion Control Measures | 0.5 | LSUM | \$1,000.00 | \$500.00 |
| 51 | Irrigation Systems, Pooled | 0 | LSUM | \$1,500.00 | \$0.00 |
| 52 | Pavement Marking | 0 | LSUM | \$1,500.00 | \$0.00 |
| 53 | Restoration 3" Topsoil and Class A Seed | 0 | SYD | \$4.00 | \$0.00 |
| SUBTOTAL = | | | | | \$5,910.00 |
| 10% CONTINGENCY + 15% ENGINEERING = | | | | | \$977.55 |
| ESTIMATED TOTAL PROJECT COST = | | | | | \$6,887.55 |

Cost Opinion based on 2013 Construction

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CITY OF DOYNE CITY
Gravel Streets Budgeting
Preliminary Opinion of Probable Construction Costs

Project Area - McGee Street from Roosevelt Street south to Dead End.

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|---------------------------------------|--|--------------------|-----------|-------------|---------------------|---|
| 1 | Utility Box, 24" Dia | 1 | LSUM | \$7,200.00 | \$7,200.00 | |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$300.00 | \$0.00 | 0 |
| 3 | Adjust Water Valve or WSO | 0 | EACH | \$250.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Box | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Underdrain, Type II (includes sand bedding) | 0 | CYD | \$12.00 | \$0.00 | 0 |
| 10 | Driveway Stabilization | 0 | SYD | \$2.00 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 6 inch | 0 | LFT | \$5.00 | \$0.00 | 0 |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6 inch | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 14 | Water Main, 6" PVC DR 15 | 0 | LFT | \$28.00 | \$0.00 | 0 |
| 15 | Water Valve, 6" | 0 | EACH | \$650.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia Tapping Saddle and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 18 | New Service, 1" Type K Copper | 0 | LFT | \$10.00 | \$0.00 | 0 |
| 19 | Coil Slew & Box, 1 inch | 0 | EACH | \$225.00 | \$0.00 | 0 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 0 | EACH | \$1,500.00 | \$0.00 | 0 |
| 22 | Fit Hydro Assembly | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia Sanitary Manhole including Casting | 1 | EACH | \$2,000.00 | \$2,000.00 | 1 |
| 25 | 6" Dia PVC SDR-35 Sanitary Sewer | 60 | LFT | \$30.00 | \$1,800.00 | 60 |
| 26 | 8" Dia Sanitary Sewer Wye | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 27 | 6" Dia PVC SDR-35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2" Dia Catch Basin including Casting | 0 | EACH | \$1,700.00 | \$0.00 | 0 |
| 30 | 4" Dia Catch Basin including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4" Dia Storm Manhole including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 32 | 24" Dia Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 12" Dia Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia Storm Sewer | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 36 | Driveway Slew and rip top | 1 | LSUM | \$10,000.00 | \$10,000.00 | 1 |
| 37 | Machine Grading, Modified | 4.0 | SFA | \$5,000.00 | \$20,000.00 | 4 added price to account for street draining to north |
| 38 | 5" 23A Aggregate Shoulder | 0 | STD | \$1.00 | \$0.00 | 0 |
| 39 | 6" 22A Aggregate Base | 1,150 | STD | \$1.00 | \$1,150.00 | 15730ft |
| 40 | 8" 22A Aggregate Base | 0 | STD | \$8.00 | \$0.00 | 0 |
| 41 | RNA Pavement (12"20ft/0) | 205 | TON | \$70.00 | \$14,350.00 | 15730ft @ 530ft/yard + 6% |
| 42 | RNA Approach | 0 | TON | \$110.00 | \$0.00 | 0 |
| 43 | RNA Curb | 0 | LFT | \$3.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 0 | SFT | \$8.00 | \$0.00 | 0 |
| 45 | 5" Concrete Sidewalk | 0 | SFT | \$5.50 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 1,650 | SFT | \$4.00 | \$6,600.00 | 330' @ |
| 47 | Sidewalk Ramp ADA (incl detriable warning surface) | 75 | SFT | \$12.00 | \$900.00 | at 6' x 15' |
| 48 | Concrete Curb & Gutter, Modified Detail F-4 | 860 | LFT | \$13.00 | \$11,180.00 | 450, 430 no curb on end of driveway |
| 49 | Traffic Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 | 1 |
| 50 | Erosion Control Measures | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 51 | Irrigation Systems, Protect | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 52 | Pavement Marking | 0 | LSUM | \$1,000.00 | \$0.00 | 0 |
| 53 | Restriator, 3" Topsoil and Class A Sand | 225 | SYD | \$4.00 | \$900.00 | 2(10'x30') @ |
| SUBTOTAL = | | | | | \$98,640.00 | |
| 10% CONTINGENCY + 15% ENGINEERING = | | | | | \$24,160.00 | |
| ESTIMATED TOTAL PROJECT COST = | | | | | \$122,800.00 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYLIE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Timberline Trail from Pleasant Avenue to Dead End

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price |
|-------------------------------------|--|--------------------|-----------|------------|-------------|
| 1 | Subdrain, 10" Max | 1 | LSUM | \$3,800.00 | \$3,800.00 |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$330.00 | \$0.00 |
| 3 | Adjust Water Valve or VSO | 0 | EACH | \$250.00 | \$0.00 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 |
| 7 | Extension | 0 | CYD | \$5.00 | \$0.00 |
| 8 | Embankment | 0 | CYD | \$5.00 | \$0.00 |
| 9 | Subgrade Undercutting, Type B (includes sand backfill) | 0 | CYD | \$12.00 | \$0.00 |
| 10 | Gravelle Subdrain | 0 | SYD | \$2.50 | \$0.00 |
| 11 | Underdrain, Embankment, 8 inch | 0 | LFT | \$5.00 | \$0.00 |
| 12 | Underdrain, Outlet Ending, 8 inch | 0 | EACH | \$100.00 | \$0.00 |
| 13 | Underdrain, Outlet Tap to CB, 8 inch | 0 | EACH | \$300.00 | \$0.00 |
| 14 | Water Main, 6" PVC DR 18 | 0 | LFT | \$25.00 | \$0.00 |
| 15 | Water Main, 6" | 0 | EACH | \$150.00 | \$0.00 |
| 16 | Water Main, Release Detail | 0 | EACH | \$1,200.00 | \$0.00 |
| 17 | 1" Dia. Tapping Saddle and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 |
| 18 | Water Saddle, 1" Type X Copper | 0 | LFT | \$20.00 | \$0.00 |
| 19 | Curb Stop & Box, 1 inch | 0 | EACH | \$225.00 | \$0.00 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 |
| 21 | Connect to Existing Water Main | 0 | EACH | \$1,500.00 | \$0.00 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,500.00 | \$0.00 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 |
| 24 | 4" Dia. Sanitary Manhole including Casting | 0 | EACH | \$2,000.00 | \$0.00 |
| 25 | 3" Dia. PVC SDR 35 Sanitary Sewer | 0 | LFT | \$20.00 | \$0.00 |
| 26 | 6" Dia. Sanitary Sewer Wye | 0 | EACH | \$120.00 | \$0.00 |
| 27 | 6" Dia. PVC SDR 35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 |
| 29 | 2" Dia. Catch Basin including Casting | 0 | EACH | \$1,200.00 | \$0.00 |
| 30 | 4" Dia. Catch Basin including Casting | 0 | EACH | \$2,000.00 | \$0.00 |
| 31 | 4" Dia. Storm Manhole including Casting | 0 | EACH | \$2,000.00 | \$0.00 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 |
| 35 | 12" Dia. Storm Sewer | 0 | LFT | \$25.00 | \$0.00 |
| 36 | Tap & Connect to Existing Storm Manhole | 0 | EACH | \$200.00 | \$0.00 |
| 37 | Machine Grading, Matted | 2.6 | STA | \$8,000.00 | \$20,800.00 |
| 38 | 6" 22A Aggregate Shoulder | 210 | SYD | \$5.00 | \$1,050.00 |
| 39 | 6" 22A Aggregate Base | 915 | SYD | \$5.00 | \$4,575.00 |
| 40 | 6" 22A Aggregate Base | 0 | SYD | \$5.00 | \$0.00 |
| 41 | HMA Pavement (3304/syd) | 160 | TGAL | \$70.00 | \$11,200.00 |
| 42 | HMA Approach | 15 | TGAL | \$120.00 | \$1,800.00 |
| 43 | HMA Curb | 0 | LFT | \$5.00 | \$0.00 |
| 44 | 5" Concrete Drive Approach | 0 | SFT | \$5.50 | \$0.00 |
| 45 | 5" Concrete Sidewalk | 0 | SFT | \$5.50 | \$0.00 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 |
| 47 | Sidewalk Ramp, ADA (incl. drainage/warning surface) | 0 | SFT | \$12.00 | \$0.00 |
| 48 | Concrete Curb & Gutter, Modified Detail F-4 | 0 | LFT | \$15.00 | \$0.00 |
| 49 | Traffic Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 |
| 51 | Signage Systems, Project | 0 | LSUM | \$1,000.00 | \$0.00 |
| 52 | Paved Marking | 0 | LSUM | \$1,000.00 | \$0.00 |
| 53 | Rebar for 3" Topsoil and Class A Sand | 320 | SYD | \$1.00 | \$320.00 |
| SUBTOTAL = | | | | | \$41,290.00 |
| 10% CONTINGENCY + 15% ENGINEERING = | | | | | \$10,412.00 |
| ESTIMATED TOTAL PROJECT COST = | | | | | \$51,702.00 |

Cost Opinion based on 2013 Construction

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CITY OF BOYHE CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Prospect Street from Pleasant Avenue to Dead End

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|------------------------------------|--|--------------------|-----------|------------|-------------|--|
| 1 | Mobilization, 100% Mile | 1 | LSUM | \$5,200.00 | \$5,200.00 | |
| 2 | Adjust Drainage Structure or Manhole | 0 | EACH | \$350.00 | \$0.00 | 0 |
| 3 | Adjust Water Valve or VSO | 0 | EACH | \$160.00 | \$0.00 | 0 |
| 4 | Remove Driveway Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$4.00 | \$0.00 | 0 |
| 9 | Subgrade Underdrain, Type II (includes wind breaks) | 0 | CYD | \$18.00 | \$0.00 | 0 |
| 10 | Structural Substation | 0 | SYD | \$2.50 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 6 inch | 0 | LFT | \$5.00 | \$0.00 | 0 |
| 12 | Underdrain, Outlet Ending, 6 inch | 0 | EACH | \$160.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CB, 6 inch | 0 | EACH | \$300.00 | \$0.00 | 0 |
| 14 | Water Main, 6" PVC DR 18 | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 15 | Water Valve, 6" | 0 | EACH | \$850.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1" Dia. Tapping Saddle and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 18 | Water Service, 1" Type K Copper | 0 | LFT | \$20.00 | \$0.00 | 0 |
| 19 | Curb Stop, 8" Dia, 1 inch | 0 | EACH | \$225.00 | \$0.00 | 0 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 0 | EACH | \$1,500.00 | \$0.00 | 0 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,500.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia. Sanitary Manhole Including Casing | 0 | EACH | \$7,000.00 | \$0.00 | 0 |
| 25 | 6" Dia. PVC SDR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 26 | 6" Dia. PVC SDR-35 Sanitary Sewer Wa | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 5" Dia. PVC SDR-35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 7" Dia. Catch Basin Including Casing | 0 | EACH | \$1,700.00 | \$0.00 | 0 |
| 30 | 6" Dia. Catch Basin Including Casing | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4" Dia. Storm Manhole Including Casing | 0 | EACH | \$7,000.00 | \$0.00 | 0 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 36 | Tap & Connect to Existing Storm Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 37 | Machine Grading, Modified | 2.5 | STA | \$8,000.00 | \$15,000.00 | 2.5 increase unit cost to 6000/sta to raise roadway and account for r/ptap in ditching @ E end |
| 38 | 5" 22A Aggregate Shoulder | 285 | SYD | \$5.00 | \$1,425.00 | 2(2'250')/8 + 170 for drives |
| 39 | 5" 22A Aggregate Base | 1,102 | SYD | \$5.00 | \$5,500.00 | \$905/ft |
| 40 | 8" 22A Aggregate Base | 0 | SYD | \$9.00 | \$0.00 | 0 |
| 41 | HMA Pavement (336#/syd) | 190 | TON | \$70.00 | \$13,300.00 | 8905/ft, 330#/syd + 5% |
| 42 | HMA Approach | 22 | TON | \$110.00 | \$2,420.00 | 1 drive (30' wide * 60 ft long), 170 syd, 220#/syd, 45% |
| 43 | HMA Curb | 0 | LFT | \$9.00 | \$0.00 | 0 |
| 44 | 5" Concrete Drive Approach | 0 | SFT | \$5.50 | \$0.00 | 0 |
| 45 | 5" Concrete Sidewalk | 0 | SFT | \$5.50 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp, ADA Incl. dished/flat warning surface | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Outlet, Modified Detail F-4 | 602 | LFT | \$15.00 | \$9,030.00 | 250, 250, 50, 50 |
| 49 | Tree Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 | 1 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Inspection Systems, Project | 0 | LSUM | \$1,600.00 | \$0.00 | 0 |
| 52 | Pavement Marking | 0 | LSUM | \$1,600.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Seed | 465 | SYD | \$4.00 | \$1,760.00 | 2(8'250') |
| SUBTOTAL= | | | | | \$58,485.83 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$14,101.25 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$70,666.53 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYD CITY
 Gravel Streets Budgeting
 Preliminary Opinion of Probable Construction Costs

Project Area - Ann Street from First Street to Second Street

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|---|---|--------------------|-----------|-------------|---------------------|---|
| 1 | Utilization, JOM, Misc | 1 | LSUM | \$11,700.00 | \$11,700.00 | |
| 2 | Adjust Drainage Structure or Manhole | 3 | EACH | \$350.00 | \$1,050.00 | 3 |
| 3 | Adjust Water Valve or WSO | 2 | EACH | \$250.00 | \$500.00 | 2 |
| 4 | Remove Drainage Structure or Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Clearing & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 9 | Subgrade Underdrain, Type II (includes sand backfill) | 0 | CYD | \$12.00 | \$0.00 | 0 |
| 10 | Geotextile Stabilization | 0 | SYD | \$1.85 | \$0.00 | 0 |
| 11 | Underdrain, Subgrade, 6 inch | 0 | LFT | \$1.00 | \$0.00 | 0 |
| 12 | Underdrain, Curbside, 4 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Curbside Top to CR, 8 inch | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 14 | Water Main, 6" PVC DR 18 | 0 | Lf | \$25.00 | \$0.00 | 0 |
| 15 | Water Valve, 6" | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 1 | EACH | \$1,200.00 | \$1,200.00 | 1 |
| 17 | 1" Dia. Tapping Saddle and Connection Stop | 1 | EACH | \$200.00 | \$200.00 | 1 |
| 18 | Water Service, 1" Type K Copper | 40 | LFT | \$20.00 | \$800.00 | 40 |
| 19 | Curb Stop & Box, 1 inch | 1 | EACH | \$225.00 | \$225.00 | 1 |
| 20 | Connect To Existing Water Lead | 1 | EACH | \$500.00 | \$500.00 | 1 |
| 21 | Connect To Existing Water Main | 0 | EACH | \$1,500.00 | \$0.00 | 0 |
| 22 | New Hydrant Assembly | 0 | EACH | \$2,500.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 4" Dia. Sanitary Manhole Including Casting | 0 | EACH | \$1,000.00 | \$0.00 | 0 |
| 25 | 8" Dia. PVC SDR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 26 | 8x4" Sanitary Sewer Valve | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 6" Dia. PVC SDR-35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect To Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2 Dia. Catch Basin Including Casting | 8 | EACH | \$1,700.00 | \$13,600.00 | 8 |
| 30 | 4 Dia. Catch Basin Including Casting | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4 Dia. Storm Manhole Including Casting | 2 | EACH | \$2,000.00 | \$4,000.00 | 2 |
| 32 | 24" Dia. Storm Sewer | 0 | LFT | \$50.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$35.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 0.15 | LFT | \$25.00 | \$3,750.00 | 785 + @ 20' |
| 36 | Tap & Connect to Existing Storm Manhole | 1 | EACH | \$500.00 | \$500.00 | 1 |
| 37 | Machine Grading, Modified | 7.0 | STA | \$2,000.00 | \$14,000.00 | 7 for storm sewer replacement top |
| 38 | 6" 22A Aggregate Shoulder | 133 | SYD | \$5.00 | \$665.00 | 135 for drives |
| 39 | 6" 22A Aggregate Base | 1,700 | SYD | \$3.00 | \$5,100.00 | 153000H |
| 40 | 6" 22A Aggregate Base | 0 | SYD | \$0.00 | \$0.00 | 0 |
| 41 | HWA Pavement (30W/syd) | 296 | TOR | \$70.00 | \$20,720.00 | 163000R, 3300/syd + 6% |
| 42 | HWA Approach | 19 | TOR | \$110.00 | \$2,090.00 | 3 drive (20' wide * 20 ft long), 135 syd, 220W/syd, 16% |
| 43 | HWA Curb | 0 | LFT | \$1.00 | \$0.00 | 0 |
| 44 | 6" Concrete Drive Approach | 400 | SFT | \$5.50 | \$2,200.00 | 1 drive (20' wide * 20 ft long) |
| 45 | 6" Concrete Sidewalk | 0 | SFT | \$5.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFT | \$4.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp, ADA (incl. detectable warning surface) | 0 | SFT | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified Detail F-4 | 830 | LFT | \$15.00 | \$12,450.00 | 315, 315, 50, 50, 50, 50 |
| 49 | Traffic Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 | 1 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Retention Systems, Protect | 1 | LSUM | \$1,500.00 | \$1,500.00 | 0 |
| 52 | Pavement Marking | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restoration 3" Topsoil and Class A Seed | 1,550 | SYD | \$4.00 | \$6,200.00 | 2(10'x50')9 + 12'x60'3 for storm sewer |
| SUBTOTAL= | | | | | \$126,816.00 | |
| 10% CONTINGENCY + 15% ENGINEERING= | | | | | \$32,260.75 | |
| ESTIMATED TOTAL PROJECT COST= | | | | | \$159,076.75 | |

Cost Opinion based on 2013 Construction

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CITY OF BOYNE CITY
Gravel Streets Budgeting
Preliminary Opinion of Probable Construction Costs

Project Area - Wilson Street from Division Street south to Ann Street

| Item # | ITEM DESCRIPTION | Estimated Quantity | Item Unit | Unit Price | Total Price | |
|--|--|--------------------|-----------|-------------|---------------------|--|
| 1 | Mobilization, 10% Max | 1 | LSUM | \$12,700.00 | \$12,700.00 | |
| 2 | Adjust Drainage Structures or Manhole | 8 | EACH | \$350.00 | \$2,800.00 | 1 swn 7 swn |
| 3 | Adjust Water Valve or WSO | 0 | EACH | \$250.00 | \$0.00 | 0 |
| 4 | Remove Drainage Structures or Manholes | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 5 | Remove Tree | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 6 | Cleaning & Grubbing | 0.0 | ACRE | \$4,000.00 | \$0.00 | 0 |
| 7 | Excavation | 0 | CYD | \$5.00 | \$0.00 | 0 |
| 8 | Embankment | 0 | CYD | \$8.00 | \$0.00 | 0 |
| 9 | Subgrade Undercutting Type II (excludes sand backfill) | 850 | CYD | \$12.00 | \$10,200.00 | 27' x 40' x 2/2' |
| 10 | Ge-Acrylic Stabilization | 1,320 | SYD | \$2.50 | \$3,300.00 | 27' x 40' x 3' |
| 11 | Underdrain, Subgrade, 6 inch | 850 | LFT | \$5.00 | \$4,250.00 | 440, 440 |
| 12 | Underdrain, Outlet End ng. 8 inch | 0 | EACH | \$150.00 | \$0.00 | 0 |
| 13 | Underdrain, Outlet Tap to CR, 8 inch | 4 | EACH | \$300.00 | \$1,200.00 | 4 |
| 14 | Water Main, 6" PVC DR 18 | 0 | LFT | \$25.00 | \$0.00 | 0 |
| 15 | Water Valve, 6" | 0 | EACH | \$50.00 | \$0.00 | 0 |
| 16 | Water Main Relocation Detail | 0 | EACH | \$1,200.00 | \$0.00 | 0 |
| 17 | 1' Dia. Flapping Saddle and Corporation Stop | 0 | EACH | \$200.00 | \$0.00 | 0 |
| 18 | Water Service, 1" Type K Copper | 0 | LFT | \$20.00 | \$0.00 | 0 |
| 19 | Curb Stop & Box, 1 inch | 0 | EACH | \$225.00 | \$0.00 | 0 |
| 20 | Connect to Existing Water Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 21 | Connect to Existing Water Main | 0 | EACH | \$1,500.00 | \$0.00 | 0 |
| 22 | Fire Hydrant Assembly | 0 | EACH | \$2,500.00 | \$0.00 | 0 |
| 23 | Tap & Connect to Existing Sanitary Manhole | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 24 | 6' Dia. Sanitary Manhole including Casing | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 25 | 8' Dia. PVC SDR-35 Sanitary Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 26 | 10" Sanitary Sewer Wye | 0 | EACH | \$120.00 | \$0.00 | 0 |
| 27 | 8' Dia. PVC SDR-35 Sanitary Sewer Lead | 0 | LFT | \$22.00 | \$0.00 | 0 |
| 28 | Connect to Existing Sewer Lead | 0 | EACH | \$500.00 | \$0.00 | 0 |
| 29 | 2' Dia. Catch Basin including Casing | 4 | EACH | \$1,700.00 | \$6,800.00 | 4 |
| 30 | 4' Dia. Catch Basin including Casing | 0 | EACH | \$2,000.00 | \$0.00 | 0 |
| 31 | 4' Dia. Storm Manhole including Casing | 2 | EACH | \$2,000.00 | \$4,000.00 | 2 |
| 32 | 14" Dia. Storm Sewer | 0 | LFT | \$40.00 | \$0.00 | 0 |
| 33 | 18" Dia. Storm Sewer | 0 | LFT | \$31.00 | \$0.00 | 0 |
| 34 | 15" Dia. Storm Sewer | 0 | LFT | \$30.00 | \$0.00 | 0 |
| 35 | 12" Dia. Storm Sewer | 100 | LFT | \$25.00 | \$2,500.00 | est 100 mhc + 4 @ 20' |
| 36 | Tap & Connect to Existing Storm Manhole | 2 | EACH | \$500.00 | \$1,000.00 | 2 |
| 37 | Machine Grading Modified | 0.0 | STA | \$2,000.00 | \$0.00 | 0 |
| 38 | 6" 22A Aggregate Shoulder | 395 | SYD | \$5.00 | \$1,975.00 | 22' x 850' x 3' |
| 39 | 6" 22A Aggregate Base | 2,800 | SYD | \$5.00 | \$14,000.00 | 22' x 850' x 3' + 2 1/2' x 800' for drives |
| 40 | 8" 22A Aggregate Base | 0 | SYD | \$8.00 | \$0.00 | 0 |
| 41 | HMA Pavement (1300)yc | 385 | TON | \$70.00 | \$26,950.00 | 2200syd, 3350/syd + 6% |
| 42 | HMA Approach | 70 | TON | \$110.00 | \$7,700.00 | 9 drives (30' wide x 20 ft long), 800 syd, 220#/syd, 16% |
| 43 | HMA Curb | 0 | LFT | \$5.00 | \$0.00 | 0 |
| 44 | 6" Concrete Drive Approach | 1,200 | SFF | \$3.50 | \$4,200.00 | 2 drives (30' wide x 20 ft long) |
| 45 | 6" Concrete Sidewalk | 0 | SFF | \$5.00 | \$0.00 | 0 |
| 46 | 4" Concrete Sidewalk | 0 | SFF | \$4.00 | \$0.00 | 0 |
| 47 | Sidewalk Ramp ADA (incl. detectable warning surface) | 0 | SFF | \$12.00 | \$0.00 | 0 |
| 48 | Concrete Curb & Gutter, Modified Detail F.4 | 0 | LFT | \$15.00 | \$0.00 | 0 |
| 49 | Traffic Control and Signage | 1.0 | LSUM | \$2,000.00 | \$2,000.00 | 1 |
| 50 | Erosion Control Measures | 1 | LSUM | \$1,000.00 | \$1,000.00 | 1 |
| 51 | Impaction Systems, Protect | 1 | LSUM | \$1,500.00 | \$1,500.00 | 1 |
| 52 | Paradee Marking | 0 | LSUM | \$1,500.00 | \$0.00 | 0 |
| 53 | Restoration, 3" Topsoil and Class A Seed | 1,955 | SYD | \$4.00 | \$7,820.00 | 2(10' x 80') x 3' |
| SUBTOTAL = | | | | | \$138,805.00 | |
| 10% CONTINGENCY + 15% ENGINEERING = | | | | | \$34,701.25 | |
| ESTIMATED TOTAL PROJECT COST = | | | | | \$173,506.25 | |

Cost Option based on 2013 Construction

City of Boyne City Engineer's Opinion of Costs

Project Number: N. Lake & Court St.
Estimate Number: 2
Project Type: Road Reconstruction
Location: City of Boyne City

Project Engineer: C2AE - Gaylord
Date Created: 1/17/2013
Fed/State #:
Fed Item:
Control Section:

Description: N. Lake St.: Michigan Ave. to Court St. & Court St.: N. Lake St. to N. Park St.

| Line | Pay Item | Description | Quantity | Units | Unit Price | Total |
|------|----------|--|-----------|-------|-------------|-------------|
| 0001 | 1500001 | Mobilization, Max. ____ \$68,000 | 1.000 | LS | \$68,000.00 | \$68,000.00 |
| 0002 | 2010001 | Clearing | 0.300 | Acre | \$10,000.00 | \$3,000.00 |
| 0003 | 2020002 | Tree, Rem, 19 inch to 36 inch | 6.000 | Ea | \$525.00 | \$3,150.00 |
| 0004 | 2020004 | Tree, Rem, 6 inch to 18 inch | 6.000 | Ea | \$250.00 | \$1,500.00 |
| 0005 | 2030011 | Dr Structure, Rem | 4.000 | Ea | \$225.00 | \$900.00 |
| 0006 | 2040020 | Curb and Gutter, Rem | 145.000 | Ft | \$5.00 | \$725.00 |
| 0007 | 2050041 | Subgrade Undercutting, Type II | 7,292.000 | Cyd | \$9.00 | \$65,628.00 |
| 0008 | 2057002 | _ Machine Grading, Modified, Court St. | 19.000 | Sta | \$3,000.00 | \$57,000.00 |
| 0009 | 2057002 | _ Machine Grading, Modified, N. Lake St. | 10.000 | Sta | \$2,000.00 | \$20,000.00 |
| 0010 | 2080020 | Erosion Control, Inlet Protection, Fabric Drop | 8.000 | Ea | \$75.00 | \$600.00 |
| 0011 | 2080036 | Erosion Control, Silt Fence | 1,930.000 | Ft | \$1.75 | \$3,377.50 |
| 0012 | 3010002 | Subbase, CIP | 300.000 | Cyd | \$8.00 | \$2,400.00 |
| 0013 | 3020016 | Aggregate Base, 6 inch | 9,141.000 | Syd | \$4.50 | \$41,134.50 |
| 0014 | 3080010 | Geotextile, Stabilization | 7,292.000 | Syd | \$1.25 | \$9,115.00 |
| 0015 | 4020033 | Sewer, CI A, 12 inch, Tr Det B | 716.000 | Ft | \$33.00 | \$23,628.00 |
| 0016 | 4020034 | Sewer, CI A, 15 inch, Tr Det B | 20.000 | Ft | \$36.00 | \$720.00 |
| 0017 | 4020035 | Sewer, CI A, 18 inch, Tr Det B | 1,707.000 | Ft | \$38.00 | \$64,866.00 |
| 0018 | 4020036 | Sewer, CI A, 24 inch, Tr Det B | 374.000 | Ft | \$55.00 | \$20,570.00 |
| 0019 | 4027001 | _ Exploratory Trenching | 50.000 | Ft | \$25.00 | \$1,250.00 |
| 0020 | 4030005 | Dr Structure Cover, Adj, Case 1 | 2.000 | Ea | \$350.00 | \$700.00 |
| 0021 | 4030006 | Dr Structure Cover, Adj, Case 2 | 2.000 | Ea | \$375.00 | \$750.00 |
| 0022 | 4030010 | Dr Structure Cover, Type B | 16.000 | Ea | \$600.00 | \$9,600.00 |
| 0023 | 4030050 | Dr Structure Cover, Type K | 24.000 | Ea | \$675.00 | \$16,200.00 |
| 0024 | 4030200 | Dr Structure, 24 inch dia | 24.000 | Ea | \$900.00 | \$21,600.00 |

| Line | Pay Item | Description | Quantity | Units | Unit Price | Total |
|------|----------|--|------------|-------|-------------|-------------|
| 0025 | 4030210 | Dr Structure, 48 inch dia | 16.000 | Ea | \$1,300.00 | \$20,800.00 |
| 0026 | 4030220 | Dr Structure, 60 inch dia | 2.000 | Ea | \$2,200.00 | \$4,400.00 |
| 0027 | 4030312 | Dr Structure, Tap, 12 inch | 2.000 | Ea | \$300.00 | \$600.00 |
| 0028 | 4030324 | Dr Structure, Tap, 24 inch | 1.000 | Ea | \$350.00 | \$350.00 |
| 0029 | 4040073 | Underdrain, Subgrade, 6 inch | 3,860.000 | Ft | \$4.50 | \$17,370.00 |
| 0030 | 5010050 | HMA, 4E1 385 lbs/syd-in (3.5 inches) | 1,574.000 | Ton | \$60.00 | \$94,440.00 |
| 0031 | 5010061 | HMA Approach 250 lbs/syd-in (2.25 inches) | 85.000 | Ton | \$85.00 | \$7,225.00 |
| 0032 | 8010005 | Driveway, Nonreinf Conc, 6 inch | 67.000 | Syd | \$30.00 | \$2,010.00 |
| 0033 | 8027001 | _ Curb and Gutter, Conc, Det F4, Modified | 5,715.000 | Ft | \$15.00 | \$85,725.00 |
| 0034 | 8050010 | Curb Sloped, HMA | 200.000 | Ft | \$1.50 | \$300.00 |
| 0035 | 8070095 | Post, Mailbox Special | 20.000 | Ea | \$75.00 | \$1,500.00 |
| 0036 | 8117001 | _ Pavt Mrkg, Polyurea, 24 inch, Stop Bar | 120.000 | Ft | \$8.50 | \$1,020.00 |
| 0037 | 8117001 | _ Pavt Mrkg, Polyurea, 6 inch, Crosswalk | 360.000 | Ft | \$2.50 | \$900.00 |
| 0038 | 8117001 | _ Pavt Mrkg, Wet Reflective, Polyurea, 4 inch, White | 100.000 | Ft | \$1.00 | \$100.00 |
| 0039 | 8117001 | _ Pavt Mrkg, Wet Reflective, Polyurea, 4 inch, Yellow | 5,722.000 | Ft | \$1.00 | \$5,722.00 |
| 0040 | 8117001 | _ Recessing Pavement Markings, Longit | 5,722.000 | Ft | \$0.50 | \$2,861.00 |
| 0041 | 8120012 | Barricade, Type III, High Intensity, Double Sided, Lighted, Furn | 8.000 | Ea | \$125.00 | \$1,000.00 |
| 0042 | 8120013 | Barricade, Type III, High Intensity, Double Sided, Lighted Oper | 8.000 | Ea | \$25.00 | \$200.00 |
| 0043 | 8120140 | Lighted Arrow, Type C, Furn | 2.000 | Ea | \$350.00 | \$700.00 |
| 0044 | 8120141 | Lighted Arrow, Type C, Oper | 2.000 | Ea | \$115.00 | \$230.00 |
| 0045 | 8120170 | Minor Traf Devices | 1.000 | LS | \$13,000.00 | \$13,000.00 |
| 0046 | 8120231 | Pavt Mrkg, Type NR, Tape, 4 inch, Yellow, Temp | 315.000 | Ft | \$2.00 | \$630.00 |
| 0047 | 8120250 | Plastic Drum, High Intensity, Furn | 100.000 | Ea | \$25.00 | \$2,500.00 |
| 0048 | 8120251 | Plastic Drum, High Intensity, Oper | 100.000 | Ea | \$2.25 | \$225.00 |
| 0049 | 8120350 | Sign, Type B, Temp, Prismatic, Furn | 600.000 | Sft | \$4.25 | \$2,550.00 |
| 0050 | 8120351 | Sign, Type B, Temp, Prismatic, Oper | 600.000 | Sft | \$1.25 | \$750.00 |
| 0051 | 8120370 | Traffic Regulator Control | 1.000 | LS | \$11,000.00 | \$11,000.00 |
| 0052 | 8160100 | Slope Restoration, Type A | 12,080.000 | Syd | \$2.50 | \$30,200.00 |
| 0053 | 8230421 | Water Shutoff, Adj, Case 1 | 2.000 | Ea | \$175.00 | \$350.00 |

| Line | Pay Item | Description | Quantity | Units | Unit Price | Total |
|------------------------|----------|----------------------------|----------|-------|------------|---------------------|
| 0054 | 8230422 | Water Shutoff, Adj, Case 2 | 2.000 | Ea | \$100.00 | \$200.00 |
| 0055 | 8230431 | Gate Box, Adj, Case 1 | 4.000 | Ea | \$275.00 | \$1,100.00 |
| 0056 | 8230432 | Gate Box, Adj, Case 2 | 4.000 | Ea | \$265.00 | \$1,060.00 |
| Estimate Total: | | | | | | \$747,432.00 |



123 West Main Street
 Suite 200
 Gaylord, MI 49735
 P: 989.732.8131
 F: 989.732.2714
 info@c2ae.com
 www.c2ae.com

**CITY OF BOYNE CITY
 Gravel Streets Summary**

| Street Segment | Estimated Total Project Cost | Cross Section | Conc Curb | HMA Curb | Sanitary Sewer | Storm Sewer | Water Main | Sidewalk | Undercut |
|--|------------------------------|---------------|-----------|----------|----------------|-------------|------------|----------|----------|
| Lynn Street – Court Street north to Dead End (370 feet) | \$155,300.00 | Std 22' | | X | X | | X | | X |
| Newton Street – Court Street north to 50' north of existing ditch (470 feet) | \$230,700.00 | Std 22' | | X | X | X | X | | X |
| Addis Street – Ridge Street north to City Gate (990 feet) | \$193,300.00 | D2 Mod | | | | | | | X |
| Ridge Street – Charlevoix Street west to Addis Street (750 feet) | \$168,400.00 | D2 Mod/D5 Mod | X | | X | | | | |
| Escape Street – Court Street north to Ridge Street (315 feet) | \$77,800.00 | D2 Mod | | X | | | X | | |
| Jefferson Street – Court Street south to existing pavement (1265 feet) | \$310,000.00 | D2 | | | | | | X | |
| Collins Street – East Street, east to Jefferson Street (695 feet) | \$317,700.00 | Match East | X | | X | X | X | X | X |
| Grove Street – Groveland Street north to dead end (200 feet) | \$72,500.00 | Std 18' | | X | X | | X | | |
| Ottawa Street – Groveland Street north to dead end (260 feet) | \$66,000.00 | Std 18' | | X | | | | | X |
| Fremont Street – Groveland Street north to dead end (200 feet) | \$78,000.00 | Std 18' | | X | X | | X | | |
| Union/Edwin Streets – Vogel Street south & west to dead end (365 feet) | \$129,500.00 | Std 18' | | X | | X | X | | X |
| Taylor Street – State Street north to Rotary Park (215 feet) | \$119,900.00 | D5 Mod | X | | X | X | X | X | X |
| Call Street – Vogel Street north to City Limits (1320 feet) | \$397,400.00 | D5 Mod | X | | | X | | | X |
| Spring Street – Oak Street west to Jefferson Street (1000 feet) | \$344,000.00 | D5 Mod | X | | | X | | X | |
| Marl Street – Forest Alley north to Main Street (220 feet) | \$110,000.00 | D5 Mod | X | | | X | | X | |
| Forest Street (Alley) – Marl Street east to Dead End (500 feet) | \$4,900.00 | 12' Chip Seal | | | | | | X | |
| McClellan Street – Roosevelt Street to south Dead End (330 feet) | \$120,800.00 | D5 Mod | X | | | | | X | |
| Timberline Trail – Pleasant Avenue to Dead End (180 feet) | \$52,100.00 | D2 Mod | | | | | | | |
| Prospect Street – Pleasant Avenue to Dead End (250 feet) | \$70,500.00 | D2 Mod | | | | | | | |
| Ann Street – First Street to Second Street (450 feet) | \$161,000.00 | D5 Mod | X | | | X | | | |
| Wilson Street – Division Street south to end (880 feet) | \$173,500.00 | D2 | | | | | | | X |
| North Lake Street – Silver Street to Court Street (500 feet) | \$165,700.00 | D5 Mod | X | | X | X | | | X |
| Court Street - Lynn Street to Park Street (2500 feet) | \$886,300.00 | D5 Mod | X | | | X | | X | X |



City of Boyne City

MEMO

Agenda Item 9D

Date: May 24, 2013

To: Mayor Grunch and the Boyne City City Commission

From: Michael Cain, City Manager *Mc*

Subject: Pleasant and Division Street Mill and Fill Project

On April 17, 2013 bids were opened for the milling and resurfacing of the pavements on Pleasant Street from Division west to Front Street and Division Street from Pleasant south to the City limits. Both roads were capped several years ago and those caps are now failing in significant areas. The proposed project would mill through the existing caps and underlying pavement and replace those with one and a half inches of new pavement. We would expect this new pavement to last for between 10 and 15 years. This project was included in this year's budget.

Two bids were received, one from Payne and Dolin for \$112,360.75 and the low bid from Reith Riley Construction at \$107,740.15, a difference of \$4,620.60. The complete bid returns are available in the City Clerks office for review and will be brought to the meeting if case you would like to see them or have any questions. We have worked with both bidders successfully in the past and could recommend either one to do the work. Normally the rest would be easy and we would recommend that the City Commission award the bid to the low bidder, Reith Riley Construction at an estimated cost of \$107,740.15. The work needs to be done and the funds are available.

Here's the complicating part. This spring the Michigan Department of Transportation (MDOT) changed the procedure for spending some federal funds that they normally pass thru to local road and transit agencies. In our case this involves the Charlevoix County Road Commission, Charlevoix County transit and the cities and village in the county. We used such funds for our recent Division Street project and had scheduled Court Street to be in line for over \$700,000 of funding a few years from now. In order to accumulate such an amount, funds that passed thru the State over several years would need to be accumulated. MDOT is no longer allowing funds to be saved over several years like we have done in the past and were proposing in the future. MDOT wants us to use those funds now and not be able to save them for bigger projects. These funds can only be used for improvements on certain federal aid eligible roads, which are usually more major class roads. Roads like most of Lake Street qualify while more residential roads would not. The segments of Division and Pleasant scheduled for the mill and fill noted above would qualify to use these funds. So rather than risk losing this money and having it leave our City and our County we looked at using them on Division and Pleasant. This project is scheduled to go and we could use the local money saved for other future road projects of our choice.

That was looking like a very good option to us until MDOT told us that the mill and fill project would need to be rebid using their bid process, meaning that work on Division and Pleasant couldn't be done until the spring of 2014, one year from now. We have been unable to come up with alternate viable projects to use the money for so far.

So the dilemma we are facing is do we want to save over \$100,000 by delaying the project and driving over two pretty rough roads for another season. They will only get worse as the season continues, especially if they have to go thru another winter. Neither option is very appealing.

Despite the fact that I drive over this portion of Division usually several times a day I would recommend that we delay the project on Division and Pleasant streets to save us some \$100,000 dollars. That equals about 62% of one mill.

RECOMMENDATION: That the City Commission direct staff to proceed in using MDOT local road funds to undertake road improvements on Division and Pleasant Streets at the earliest reasonable opportunity.

Options:

- 1) Award the mill and fill project to the low bidder Reith Riley Construction at an estimated cost of \$107,740.15 using currently budgeted local funds.
- 2) Postpone the matter for further consideration and/or information.
- 3) Other option(s) as determined by the City Commission.



Date: May 28, 2013
To: Michael Cain, city manager *MC*
City Commissioners
From: Hugh Conklin, program manager *HC*
RE: SOBO Arts Festival Grant

Overview

The SOBO Arts Festival has received a \$1,900 grant from the Charlevoix County Community Foundation to support the 2013 event scheduled for June 28-29. The festival committee is a part of the Main Street Promotions committee and Kathy MacDonald is the event chair. Other members of the organizing committee are Marilyn Neilson, Becky Harris, Ward Collins, Cindi Malin, Jasmine Witthoeft, and Diane Strzelinski.

This is the 4th annual festival and artists from New Orleans, Florida, Arizona, and all over Michigan will be featured at the two-day event. The festival opens on Friday evening, June 28, from 6-9 p.m. during Stroll the Streets. The evening will feature a variety of musicians and entertaining activities such as jugglers and magicians, business open houses, beer tasting at the Thirsty Goat, a "sneak peek" at artists exhibiting on Saturday, all culminating with an outdoor concert in the SOBO Arts District from 7- 9 p.m. featuring the Bay Area Big Band. The Community Foundation grant will fund the cost of the band.

On Saturday, June 29, from 9 a.m.-5 p.m. the SOBO Arts Festival activities continue at nearby Peninsula Beach, the first year the park has hosted the event. The juried art fair will blend with art demonstrations and workshops, hands-on art projects for children, and live music.

The SOBO Arts Festival was created three years ago to celebrate the many wonderful artists and musicians of our region and to bring a quality event to the Boyne City community. The event is organized by the Boyne City Main Street Program with support from the Boyne Area Chamber of Commerce and many local sponsors. In addition to the Charlevoix County Community Foundation, Pat O'Brien & Associates Real Estate, the Boyne River Inn, Northwestern Bank, Petoskey Area Visitors Bureau, Café Sante and Red Mesa, Eyes on Main, State Farm Insurance, and several other local businesses.

Recommendation

The City Commission authorize City Manager Michael Cain to sign the necessary documentation to accept the Charlevoix County Community Foundation grant.



Grant Agreement

Organization: City of Boyne City

Amount: \$1,900.00

Grant Period: May 1, 2013 to April 30, 2014

Purpose: to bring the Bay Area Big Band to the SOBO arts festival

I. Grant purpose(s)

Funds provided by the community foundation will be appropriately accounted for and used for the purposes described in this agreement, and as detailed in your proposal submitted for the March 1, 2013 grant cycle. The conditions of the grant and the expenditure of funds may not be modified without the written approval of the community foundation.

II. Nondiscrimination

The grantee will not discriminate in its employment practices, volunteer opportunities or program decisions, on the basis of race, religion, gender, age, handicap, or marital status.

III. Method of Payment

Contact the community foundation to discuss when funds are needed and a satisfactory method of payment.

IV. Violation of Terms

The community foundation reserves the right, in its absolute discretion, to terminate the grant if the terms and conditions of this agreement are violated. It may also result in the return of all funds awarded to the grantee for the project.

V. Financial Report & Final Narrative

A financial report form must be completed and returned to us by the end of the grant period, April 30, 2014. A final narrative describing how grant monies were used will be written and submitted within 60 days of the end of the grant period.

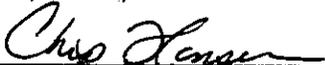
VI. Public Announcement

The community foundation is a public foundation, and we would like the community to be informed of our grants. Please prepare a news release announcing the grant, using the Charlevoix County Community Foundation's name in its entirety and submit it to maureen@c3f.org for review prior to contacting the media.

The following parties, agree to the grant terms and conditions, as outlined above:

Mr. Michael Cain, City Manager
City of Boyne City

Date



R.A. "Chip" Hansen, Jr., President
Charlevoix County Community Foundation

4.25.2013

Date



Date: May 28, 2013

To: Michael Cain, city manager
City Commissioners *Mc HC*

From: Hugh Conklin, program manager

RE: Downtown Planning Grant

The Michigan Economic Development Corporation announced in early March the opportunity for communities to submit applications for a downtown development planning grant. The grant application was due April 26. Funding priorities for the grant outlined by the MEDC were:

- Projects are located in a DDA or similar district.
- Projects located in a Main Street or Redevelopment Ready Community.
- Projects located in communities that do not have open grants that have not been drawn down.
- Projects that lead to the implementation of a development that are likely to have position creation and private investment.
- Projects with the highest percentage of local matching funds – a 50 percent minimum is required.
- Projects that involve multi-story buildings; will lead to the rehabilitation of a historic resource; will address brownfield conditions; and / or will address underutilized downtown theatres.

Realizing the Boyne Theatre project met nearly all the funding priorities, the Main Street Board authorized me to submit a grant application to complete a feasibility study on the Theatre. On Friday, May 24, we were notified our grant request had been approved for funding, contingent on the successful completion of Phase 2 of the application process.

The grant is for an amount not to exceed \$25,000 and requires a cash match equal to the funds received. This is similar to the planning grant we received for the Dilworth Hotel a few years ago.

In the grant application we were required to submit proposals from three consultants. Their fees range from \$16,000 to \$49,800, not including expenses. Our next step is to interview the three firms and determine the best consultant to complete the study.

While a feasibility study was not specifically listed, a theatre expense line item of \$15,000 was included in the 2013-14 Main Street budget.

Recommendation

The City Commission authorize the City Manager to sign and complete necessary documents related to the Michigan Economic Development Corporation's Downtown Planning Grant.



May 23, 2013

The Honorable Ron Grunch
City of Boyne City
319 North Lake Street
Boyne City, MI 49712

Subject: Downtown Planning Community Development Block Grant Commitment Letter

Dear Mayor Grunch:

On behalf of the Michigan Strategic Fund (MSF), I am pleased to inform you that after review of your submitted Part I Application, the City of Boyne City will be recommended for approval of a \$25,000 Downtown Planning Community Development Block Grant (CDBG), subject to the execution of a Grant Agreement and your ability to meet the following contingencies by the dates indicated:

- **June 6:** City provides a signed copy of this commitment letter.
- **July 2:** City provides the completed Part II application (attached) along with the published hearing notice, public hearing meeting minutes and documentation of the completed Environmental Review.

After the requested documentation has been submitted and determined to be satisfactory, the Community will be recommended for a grant award at the July MSF Board meeting. As indicated above, the grant award will be contingent upon the execution of a Grant Agreement. Therefore, public notice indicating approval of the CDBG funds can only be made after the execution of the Grant Agreement.

Project costs, cannot be incurred until the Grant Agreement has been executed and written authorization to incur project costs has been provided. CDBG funding will be jeopardized if project costs are incurred without written authorization. For more information regarding incurring costs, refer to the CDBG Application Guide.

As your acknowledgement of receipt of this letter and your intent to meet the outlined deadlines, please sign both original letters and return one original letter, by June 6, 2013, to the Michigan Economic Development Corporation, ATTN: Christine Whitz, 300 North Washington Square, Lansing, MI 48913. Retain the second original letter for the City's file.

Congratulations on the selection of your project to be recommended for CDBG funding!

Sincerely,

AGREED:

A handwritten signature in cursive script, appearing to read "D Stuart".

Deborah Stuart, Director
Community Development
Financial Incentive Packages

Ron Grunch, Mayor
City of Boyne City

Michigan Economic Development Corporation

300 North Washington Square | Lansing, MI 48913 | 888.522.0103 | MichiganAdvantage.org | michigan.org



BOYNE CITY POLICE

319 North Lake St. Boyne City, MI 49712 • police@boynecity.com • Phone: (231) 582-6611 • Fax (231) 582-3670

Date: May 24, 2013
To: Michael Cain, City Manager *MC*
From: Jeff Gaither, Chief of Police *JG*
Subject: Risk Reduction Grant Program

Once again we have the opportunity to apply for a grant from our insurance carrier, The Michigan Participating Plan. The Police Department would like to propose an application for a grant to offset the purchase of a Media Storage System.

As we discussed during the budget process, a computer network storage device or server is needed to properly store the large amount of data being generated by our video cameras. A system is needed to allow the Police Department to download, store, copy and view video files that have been recorded by the department's in-car cameras and the body worn video cameras. These videos consume a large quantity of memory that a stand alone computer cannot accommodate. We are currently using a regular computer with an external hard drive to download and store this data however, our computer is overloaded at this point.

I have proposed a Media Storage System that would consist of a new computer, a server, labor to install and set it up and housing for this system. The purchase of a complete Media Storage System would enable the Police Department to manage and view video files of enforcement encounters by police officers with the public, with the goal of reducing civil liability.

I have budgeted \$3,500 for this project and the total cost of this project would be \$6200. I am requesting a grant of \$4,700.

A requirement of this grant program is a resolution of support from our governing board, the City Commission.

To be eligible for the round of grants the application must be submitted by May 31, 2013.

RECOMMENDATION: That the City Commission approves a resolution of support to apply for a grant of \$4,700 from the Michigan Township Participating Plan's Risk Reduction Grant Program and authorize the City Manager and/ or City Clerk/ Treasurer to prepare and sign the necessary documents to apply for and implement the grant as proposed.

Jeff Gaither, Chief of Police

Options:

Postpone the matter for further consideration or information and a future round of grants

Select another project to apply for a grant for.

Deny the request and do not apply for the grant.

Other action as determined by the City Commission

Server and Workstation for Video Media Server

May 23, 2013

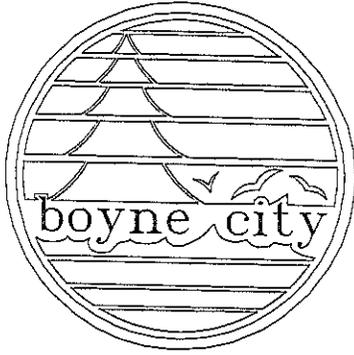
PREPARED BY: PREPARED FOR:

CONTACT **Mark Corbiser**
 COMPANY **Marcor Technologies, LLC**
 ADDRESS **P.O. Box 1671**
 CITY ST ZIP **Gaylord, MI**
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 EMAIL **mwcorbiser@marcortech.com**

CONTACT **Jeff Gaither**
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 ADDRESS
 CITY ST ZIP **Boyer City, MI 49712**
 PHONE
 EMAIL **jgaither@boyercity.com**

ITEMS IN QUOTE

| | | | | | |
|--|---|----|----------|----|----------|
| Lenovo ThinkServer TS430 Tower Server Intel Xeon® Processor X31220v2 3.1GHz with quad-core 8 GB Memory / 16 GB (max) - RDIMM, PC3-10600 1333MHz DDR3 Super Multi-Burner DL DVD±RW, SATA 1.5Gb/s 1 Gigabit Ethernet Port 2 - 500GB SATA 7200RPM Hard Drives configured as RAID1 for OS 2 - 2TB SATA 7200RPM Hard Drives configured as RAID1 for Data Storage 450W power supply Microsoft Windows Server 2012 Essentials 3 Yr. onsite NBD warranty | 1 | \$ | 3,100.00 | \$ | 3,100.00 |
| Lenovo ThinkCentre M82 - 3306 Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache) 4 GB (installed) / 32 GB (max) - PC3-12800 1600MHz DDR3 500 GB - Serial ATA-600 - 7200 rpm Hard Drive Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Intel HD Graphics 2500 in processor High Definition (HD) Audio, Realtek® ALC662 codec One gigabit ethernet port, Intel 82579 Four USB 3.0, four USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Microsoft Windows 7 Professional 64-bit 3 year onsite repair service Small Form Factor Case | 1 | \$ | 650.00 | \$ | 650.00 |
| 22" Acer LCD Monitor | 1 | \$ | 125.00 | \$ | 125.00 |
| Subtotal | | | \$ | | 3,875.00 |
| Tax | | | \$ | | 232.50 |
| Total | | | \$ | | 4,107.50 |



CITY OF BOYNE CITY

MEMO

To: Michael Cain, City Manager *MC*

From: Barb Brooks, Executive Assistant / Harbormaster *BB*

Date: May 24, 2013

Subject: Temporary Trailer Storage @ Airport

Each year I am contacted by a number of people that either own property or are visiting Boyne City that are looking for a location to store their boat trailer. In the past the City allowed a number of spaces at our main boat launch for this use. This use was discontinued about 15 years ago due to the demand/use of the launch on weekends and lack of parking capacity.

As I get inquiries or have to ask someone to remove their trailer from the launch, I generally refer them to other marine service businesses to check the availability of storage options. Sunburst has been able to help some of the boaters but there still seems to be a void.

Attached is a memo I provided the Airport Board at their May 23rd meeting. There was good discussion about how it would be managed, liability, possible use conflicts and location. The board did unanimously approve the proposal as presented and to work with staff on the details of location and amount of space to be designated.

If we find this proposed service doesn't work out or there are problems that can't be resolved, we would discontinue the service.

Recommendation:

To approve the use of boat trailer storage at the Boyne City Airport through October and adopt the proposed fees into the City's fee schedule as part of the FY 13/14 Budget.

Other options:

Allow the use and charge fees other than what is proposed
 Not allow the use



CITY OF BOYNE CITY

MEMO

To: Airport Advisory Board
From: Barb Brooks, Exec. Assistant / Harbormaster
Date: May 23, 2013
Subject: Boat and/or Trailer Storage Proposal



Proposed Fees:

- \$5 / day
- \$25 / week
- \$75 / month
- \$200 / season (May 15 – October 15)
- \$150 / season (marina guests only)

Marina Staff will:

- issue parking tags
- monitor the trailers/boats daily
- collect fess
- handle possible violations

Funds will be a 60 / 40 split (marina 60% & airport 40%). Monies will be credited to the marina and then the treasurer will make one transfer for the 40% before the end of the fiscal year.

May 2013

| May 2013 | | | | | | | June 2013 | | | | | | |
|----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S |
| 5 | 6 | 7 | 1 | 2 | 3 | 4 | 2 | 3 | 4 | 5 | 6 | 7 | 1 |
| 12 | 13 | 14 | 8 | 9 | 10 | 11 | 9 | 10 | 11 | 12 | 13 | 14 | 8 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 26 | 27 | 28 | 29 | 30 | 31 | | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | | | | | | | 30 | | | | | | |

| Monday | Tuesday | Wednesday | Thursday | Friday | Sat/Sun |
|---|---|--|---|--------------------------|--|
| | | May 1 | 2 | 3 | 4 |
| | | Hydrant Flushing | | | |
| | | 8:00am Farmers Market | 8:30am Main Street Board mtg. 6:00pm Parks & Rec | 11:30am NLEA Annual Mtg. | 8:00am Buff Up Boyne 8:00am Farmers Market |
| | | | | | Hydrant Flushing |
| 6 | 7 | 8 | 9 | 10 | 11 |
| | | Hydrant Flushing | | | |
| | School Election 5:00pm ZBA 5:00pm ZBA | 8:00am Farmers Market | | | 8:00am Farmers Market |
| | | | | | Hydrant Flushing |
| | | | | | Mother's Day (United States) |
| 13 | 14 | 15 | 16 | 17 | 18 |
| | Hydrant Flushing | | | Mushroom Fest | |
| | 7:00pm City Commission | Marina Open 6:30am Ride of Silence 8:00am Farmers Market | | | Run for Their Lives 5k run/walk 8:00am Farmers Market |
| | | | | | Mushroom Fest |
| 20 | 21 | 22 | 23 | 24 | 25 |
| 5:00pm Planning Commission | 7:00pm Historic District | 8:00am Farmers Market | 5:30pm Airport Advisory Board | | DARE 5k/1mile Fun Run/Walk More Items... |
| | | | | | |
| 27 | 28 | 29 | 30 | 31 | |
| City Hall Closed Memorial Day Parade/Events (Uni | 12:00pm City Commission 6:00pm City Commission and Planning Joint Meeting/Redevelopme Ready Community Presentation (City | 8:00am Farmers Market | | | |

June 2013

| June 2013 | | | | | | |
|-----------|----|----|----|----|----|----|
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| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

| July 2013 | | | | | | |
|-----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

| Monday | Tuesday | Wednesday | Thursday | Friday | Sat/Sun |
|--|--|--|--|---|--|
| | | | | | June 1 8:00am Farmers Market |
| | | | | | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 |
| | 5:00pm ZBA | 8:00am Farmers Market | 8:30am Main Street Board mtg. 6:00pm Parks & Rec | | 8:00am Farmers Market 9:00am Michigan Mountain 4:00pm Mark Madness |
| | | | | | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 |
| | 7:00pm City Commission | 8:00am Farmers Market | 5:00pm County Wide BAH | Flag Day (United States) 5:30pm Stroll the Streets | Golf Outing-Humane Society 5:30am Pink Ribbon Ride More Items... |
| | | | | | 16 Father's Day (United States) |
| 17 | 18 | 19 | 20 | 21 | 22 |
| 5:00pm Planning Commission 7:00pm Historical Commission | | Main Street 10th Anv. 8:00am Farmers Market | 7:00pm Public Hearing-Slow/NoWake | Mayor's Exchange - here 5:30pm Stroll the Streets | 8:00am Farmers Market |
| | | | | | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 |
| | 12:00pm City Commission 5:30pm Douglas St. Mtg. | 8:00am Farmers Market 5:30pm Evenings at the Gazebo | Mayor's Exchange-Manistee 5:30pm Airport Advisory Board | SOBO Arts Festival 5:30pm Stroll the Streets | 8:00am Farmers Market |
| | | | | | 30 |

July 2013

| July 2013 | | | | | | | August 2013 | | | | | | |
|-----------|----|----|----|----|----|----|-------------|----|----|----|----|----|----|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S |
| | 1 | 2 | 3 | 4 | 5 | 6 | | | 1 | 2 | 3 | 4 | 5 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 28 | 29 | 30 | 31 | | | | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

| Monday | Tuesday | Wednesday | Thursday | Friday | Sat/Sun |
|----------------------------|-------------------------|--|---|--|--|
| July 1 | 2 | 3 | 4 | 5 | 6 |
| | 5:00pm ZBA | 4th of July Activities 8:00am Farmers Market 5:30pm Evenings at the Gazebo | Independence Day (United States) 8:30am Main Street Board mtg. | 5:30pm Stroll the Streets | 8:00am Farmers Market |
| 8 | 9 | 10 | 11 | 12 | 13 |
| 12:00pm EDC/LDFA | 7:00pm City Commission | 8:00am Farmers Market 5:30pm Evenings at the Gazebo | | Boyer Thunder 5:30pm Stroll the Streets | Airport Open House / Aviation Day 8:00am Farmers Market |
| 15 | 16 | 17 | 18 | 19 | 20 |
| 5:00pm Planning Commission | | 8:00am Farmers Market 5:30pm Evenings at the Gazebo | 6:00pm Parks & Rec | 5:30pm Stroll the Streets | 8:00am Farmers Market 9:00am Pooch Fest |
| 22 | 23 | 24 | 25 | 26 | 27 |
| | 12:00pm City Commission | 8:00am Farmers Market 5:30pm Evenings at the Gazebo | 5:30pm Airport Advisory Board 6:30pm Dancin in the Street | Flywheelers 5:30pm Stroll the Streets | 8:00am Farmers Market |
| 29 | 30 | 31 | | | |
| | | 8:00am Farmers Market 5:30pm Evenings at the Gazebo | | | |