

Facilities Advisory Committee 2017

## Recommendation to the Board of Education

November 20, 2017

# Minooka CCSD 201 Facilities Advisory Committee <br> Recommendation to the Board of Education <br> November 20, 2017 <br> Executive Summary 

Recommendation:
The Facilities Advisory Committee of Minooka CCSD 201 recommends that the Board of Education propose a referendum question to the voters of the District to build a new Minooka Intermediate School to house some configuration of grades 5-8, a new elementary school and additions to existing elementary buildings. The Board should pose this question on the March 20, 2018 General Primary election date.

The term "Intermediate" as used in this recommendation refers to the prototype building floorplan constructed as Minooka Intermediate School and does not infer that the building would only be for grades 5-6. The new Intermediate School is an immediate need and the land for such a building is already owned by the District on the south side of Seil Rd in Shorewood, but the new elementary school and additions to existing elementary buildings are not an immediate need based on current projections. However, the Committee recognizes the political climate and does not think it prudent to ask the voters for multiple approvals in just a few years. The Committee recommends including the projects on the ballot question, but not issuing debt to begin those projects until the enrollment and projections warrant action.

Background on recommendation:
Minooka CCSD 201 has experienced steady enrollment growth over the past several years, growing from 3,789 K-8 students in the 2010-11 school year to 4,497 K-8 students in the 2017-18 school year. Our school buildings have absorbed this growth by utilizing all of the possible teaching spaces that are available, including using stages, music rooms and computer labs as regular classroom space. At Minooka Junior High School, some teachers have used a cart to travel from classroom to classroom as there are no additional rooms for them to use on a permanent basis. For 2017-18, Minooka Intermediate School ordered additional lockers for the first time as the school population followed projections and surpassed the 1,000 student mark. The Minooka Intermediate School enrollment is currently 1,059, up from 852 in 2010-11. Our current Minooka Junior High and Minooka Intermediate will exceed the available capacity by the 2019-20 school year.

Administration and the Board of Education have been following these enrollments and adjusting projections. To meet the needs of our rising student population, the Board of Education of Minooka CCSD 201 directed the Superintendent to form a Facilities Advisory Committee to study the enrollment growth and make a recommendation to the Board of Education to provide a solution for our District and communities that will ensure our schools have adequate classroom space for all of our learners. Superintendent Kris Monn
solicited volunteers from our staff and community and conducted a random selection process that ensured Committee membership from each of our school attendance areas The first meeting of the Facilities Advisory Committee was held on April 19, 2017.

Throughout April, May and early June 2017 the Committee met several times to review our enrollment trends, current and proposed housing developments within our boundaries in the communities of Minooka, Shorewood, Joliet, and Channahon, our current facilities and the possible options for creating additional classroom space. Options discussed included portable or temporary classrooms, leasing space, building additions to current facilities and building new school buildings. Additional information was provided by Colby Lewis and Jan Tanaguchi from STR Partners, the Board's Architect, and Douglas Lim from Gilbane, a construction management company that partnered with the District during our last construction projects in 2008. STR and Gilbane were regular attendees of the Committee meetings.

The Committee reviewed various enrollment projections that used differing amounts of growth to project student populations. Greater detail on the enrollment projections can be found in Appendix D . The projections showed the following ranges of student enrollment totals through the 2021-22 school year:

| Grade Level | Current Capacity | Low (Base) Model | Medium Growth | High Growth |
| ---: | :---: | :---: | :---: | :---: |
| Kindergarten - 4th <br> Grade | 3,000 | 3,060 | $\underline{3,200}$ | 3,537 |
| 5th - 6th Grade | 1,000 | 1,221 | $\underline{1,255}$ | 1,191 |
| 7th - 8th Grade | 1,000 | 1,179 | $\underline{1,380}$ | 1,311 |

That data led the Committee to agree that some amount of additional classroom space was needed at all of our grade levels over this period of time. For the purposes of the Committee's work, they decided upon the medium growth model as the most likely.

From the information the Committee developed criteria to evaluate the available options such as:

- Providing adequate space for current and future growth
- Does not over build
- Disruption to the current schools
- Can provide space by August 2019

More information on the evaluation criteria can be found in Appendix F - Committee's Evaluation of Options.
While the financial aspect of this recommendation was not part of the charge of this Committee, they still received cost estimates of the various options to weigh against the benefits. Once the options had been narrowed down, a summary of financing options was presented to the Committee. (Appendix I)

In September 2017 the Committee came back to discuss the final options but found that the enrollment and projections needed to be modified based on the actual August 2017 student counts. This reduced the
immediate need for elementary space and focused the immediate need on the upper grade levels. It also stressed how quickly projections can change as Kindergarten numbers fluctuate.

From that new enrollment data, the Committee was able to come to consensus on the recommendation to build a new Minooka Intermediate School to house some configuration of grades 5-8, a new elementary school and additions to existing elementary buildings. While many Committee Members valued the benefits of different options in different ways, each of the other options had aspects that would prove difficult to either complete or not suitable to the available land or school sites.

One final aspect of the Recommendation that the Committee struggled with was whether or not to attempt to draw boundaries of the new school. Many discussions were held that involved which grades would attend the new facility, where would the boundaries be drawn and if we would create a feeder system for our schools. In the end it was decided to make no recommendation on the specific boundaries or grade level configuration of the new intermediate school. Many Committee members had strong opinions in this area but recognized the changing nature of enrollments and housing developments that could negate any recommendation made two years ahead of the opening of any facility.

The remainder of this Recommendation includes many of the extensive supporting materials used by the Committee to develop this recommendation, organized as Appendices. The supporting documents are:

- Appendix A - Committee Members
- Appendix B - April 19, 2017 Committee Presentation - details Current Facilities, capacities of each
- Appendix C - Current housing developments within Minooka CCSD 201
- Appendix D - Enrollment Projections from May 2017 - low, middle and high models
- Appendix E - Enrollment Projections - updated October 16, 2017
- Appendix F-Committee's List of Options, evaluated against criteria
- Appendix G - STR Summary of Classroom Space Options, Options with Capacity
- Appendix H - STR August 17,2017 Summary of remaining options
- Appendix I-Summary of financing options

In summary, the Facilities Advisory Committee recommends that the Board of Education ask the voters of our District to approve a new Intermediate School to be built on Seil Road in Shorewood, and a new elementary school and/or additions to our elementary buildings to be built when the elementary enrollment is projected to exceed the capacity of our schools. The Committee believes the Board should structure any financing to support this construction in a way that is both financially responsible and protects the taxpayers of Minooka CCSD 201.

Minooka CCSD 201 Facilities Advisory Committee Recommendation to the Board of Education November 20, 2017

## APPENDIX A: List of Committee Members

| Community Representatives | Staff Representatives | Administration / Other |
| :---: | :---: | :---: |
| Julianne Bell | Amy Ellis | Dr. Kristopher Monn |
| Sarah Both | Jackie Harig | Lori Shanholtzer |
| Brandy Hill | Kyle Hasler | Colby Lewis, STR Architects |
| Laura Hrechko | Marissa Ortiz | Jan Tanaguchi, STR Architects |
| Sarah Igric | Mary Lou Romashko | Douglas Lim, Gilbane |
| Karen James | Robert Ruglio |  |
| Kevin Kochaneck | Mike Siracusa |  |
| Dr. Kimberly Larsen | Tammy Walsh |  |
| Sara Piotrowski |  |  |
| Erick Smith |  |  |
| Kimberly Smith |  |  |
| Ryan Sparrow |  |  |

# Minooka CCSD 201 Facilities Advisory Committee 

## Recommendation to the Board of Education

November 20, 2017

## APPENDIX B: April 19, 2017 Committee Presentation

The following presentation was made at the initial meeting of the Facilities Advisory Committee. Background on the timelines and established norms of the Committee can be found within.

This presentation also details the seven current school buildings within Minooka CCSD 201 and outlines the 2016-17 enrollments and capacities of each building. It concludes with adding in the enrollment projections through the years 2021-22, where it showed the following Minooka 201 school buildings exceeding their capacity in that period of time (Slide 29):
Aux Sable Elementary - Projected enrollment of 754 in 2018-19 (750 cap)
Jones Elementary - Projection of 802 by 2019-20 (750 cap)
Minooka Intermediate - Projection of 1,059 by 2017-18 (1,000 cap)
Minooka Junior High - Projection of 1,112 by 2019-20 (1,000 cap)

## District wide - Projected enrollment of 5,227 by 2019-20 (5,000 cap)

Note: The capacities are stated using all basic classrooms as available space. In reality, we utilize many rooms throughout the District for special programs such as rooms for the Grundy County Special Education Cooperative, which uses eleven (11) classrooms throughout our buildings.

The initial presentation concluded with the problem statement the Committee was formed to recommend a solution to:

## Bottom Line:

## Minooka CCSD 201 will need to have additional educational space ready for the start of the 2019-20 school year for grades K-8.

Note: Subsequent enrollment projections from September and October 2017 using actual 2017-18 enrollment data have modified the figures above. Detailed information can be found in Appendix E - Enrollment Projections - updated October 16, 2017.

## Facilities Advisory Committee 2017-18

Minooka CCSD 201
April 19, 2017

## Agenda for 4/19/2017

1. Overview of purpose; goals for the Committee
2. Introductions
3. Establish our Committee norms, parameters
4. Establish our calendar of meetings
5. Review current state of enrollment, facilities

## 1. Rationale for Facilities Planning

Current enrollment projections show that:

- By the 2017-2018 school year, Minooka Intermediate School will exceed its educational capacity ( 1,000 students).
- By the 2019-2020 school year, both Minooka Junior High School and Minooka Intermediate School will exceed their educational capacities.
- By the 2019-20 school year, Aux Sable Elementary and Jones Elementary Schools will exceed their educational capacities (approx 750 students)


## Rationale for Facilities Planning

## Bottom Line:

Minooka CCSD 201 will need to have additional educational space ready for the start of the 2019-20 school year for grades K - 8 .

## Planning Issues

## What factors need to be accounted for?

1. How do we find space?
a. Build new schools
b. Add more space at our existing schools
i. Additions
ii. Purchase temporary classrooms
c. Lease existing space within district

## Planning Issues

## What factors need to be accounted for?

2. How do we fund the new space?
a. Operating funds - current budget already has deficit
b. New debt from referendum -
i. Current debt structure set to escalate
ii. New bonds would need voter, legislative approval

## Facilities Advisory Committee:

Purpose:

- Analyze enrollment trends, current facilities
- Current space configuration
- Project numbers of classrooms needed
- Generate options for additional space
- Types of space
- Locations
- Evaluate options


## Finance and Operations Committee:

## Purpose:

- Review current debt schedules
- Generate options for current debt
- Generate options for additional debt - using estimates from
Facilities Subcommittee
- Evaluate options


## Committee will recommend:

- How much (if any) space is needed for Minooka 201 over the next five years
- Where classroom space should be located
- Characteristics of classroom, school spaces to be added


## Committee will NOT

 recommend:- How to fund any additional space
- Class size, educational programming
- Boundary adjustments within our district


## Timelines

One option that must be considered is to go for a referendum to build additions or new schools. In order to allow for adequate construction time, the likely election would be the March 20, 2018 General Primary Election.

To ensure the Board could act upon such a recommendation from the Facilities Advisory Committee, the proposed timeline for the Committee's work uses the deadlines from the 2018 General Primary Election as an endpoint.
2. Committee Introductions

## 3. Establishing Group Norms

"Having a set of norms-or ground rules-that a group follows encourages behaviors that will help a group do its work and discourages behaviors that interfere with a group's effectiveness." (Richardson, J. 1999. From Learning Forward's Tools for Schools. Link Below.)

Learning Forward - Tools for Schools

## Establishing Group Norms

## WE WILL:

- Expect a committee member to make a commitment through October 2017.
- Meet only when there is a meaningful agenda.
- Start and end on time.
- Dress comfortably.
- Have refreshments.
- Participation is a right...and a responsibility.
- Initiate ideas.
- Support...challenge...counter. Differences resolved constructively lead to creative problem solving.
- Give others a chance to talk. Silence does not always mean agreement.
- Conduct group business in front of the group.
- Conduct personal business outside of the meeting.
- Develop alternative approaches to the solution of a problem.
- Differentiate between brainstorming and discussion.
- Express disagreement with ideas, not individuals.
- Feel responsible to express differing opinions within the meeting.
- Maintain confidentiality regarding disagreements expressed during the meeting.
- Reach decisions by consensus.
- Summarize what has been accomplished.
- Make decisions for the good of the whole, not

Timeline:

## Facilities Advisory Committee:

Facilities Subcommittee

April - May 2017

- 2-3 meetings a month

June - August 2017

- 1 meeting per month

September 2017

- Finalize recommendation

October 2017 (NO LATER THAN)

- Submit recommendation to Board of Education
- 7 PM Start time - too late, just


## Calendar of <br> Meetings <br> (Tentative)

Questions for group: right?

- Any known conflicts?
- Any known conflicts?

April:

- April 19
- April 26
April:
- April 19
- April 26
April:
- April 19
- April 26

May:

- May 3
- May 11 (TH)
- May 17
- May 17

June

- June 7
- June 14 (if
needed)
- May 17
April:

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Break

## Current Facilities

As we look at our facilities, know that there is no official capacity of each area. For our purposes, the intended capacity of a building will normally be the number of regular classrooms with an assumed 25 students per class.

# Minooka Primary Center (1925) <br> 305 W Church St, Minooka 

Last addition: 2009

Houses: Minooka 201 Preschool Programs, Grundy County Preschool Program, Grundy County Special Education (GCSEC), District Office

Reg Classrooms: 17
Other spaces: 2 (Gym, Library)
East wing occupied by District Office deemed unfit for students by Regional Office.

Student Capacity*: 425
Current Enrollment: 242


Preschool classes have much smaller class size requirements. 300-350 is the most we could envision.

## Minooka Elementary School (1961)

400 W Coady Dr, Minooka
Last addition: 2008
Houses: Grades K - 4, GCSEC
Programs
Reg Classrooms: 30
Other Classrooms: 5
Common spaces: 4 (Gyms-2, Library, Multipurpose)

Student Capacity: 750
Current Enrollment: 590


## Minooka Junior High School (1997)

335 McEvily Rd, Minooka
Last improvement: 2006
Houses: Grades 7-8


Reg Classrooms: 40
Other Classrooms: 6


Common spaces: 4 (Gyms-2, Library, Multipurpose)

Student Capacity: 1,000
Current Enrollment: 990

## Walnut Trails <br> Elementary (2004)

301 Wynstone Dr, Shorewood
Last addition: None

Houses: Grades K - 4
Reg Classrooms: 30
Other Classrooms: 4

Common spaces: 3 (Gym, Library, Multipurpose)

Student Capacity: 750


Current Enrollment: 576

## Aux Sable Elementary (2006)

## 1002 Misty Creek Dr, Minooka

Last addition: None

Houses: Grades K - 4
Reg Classrooms: 30
Other Classrooms: 4
Common spaces: 3 (Gym, Library, Multipurpose)

Student Capacity: 750
Current Enrollment: 708


Aux Sable Elementary is currently our largest elementary school in student enrollment.

## Minooka <br> Intermediate School (2009) <br> 335 McEvily Dr, Minooka

Last addition: None
Houses: Grades 5-6, GCSEC Programs
Reg Classrooms: 36
Other Classrooms: 13 (Many Special Education Classrooms that are approx $50-66 \%$ of regular size)

Common spaces: 4 (Gyms-2, Library, Multipurpose)

Student Capacity: 900 ( 1,000 is our assumed capacity due to the teaming of 6th grade)

Current Enrollment: 944

## Jones Elementary School (2009)

800 Barberry Way, Joliet
Last addition: None
Houses: Grades K-4, GCSEC
Programs
Reg Classrooms: 30
Other Classrooms: 4
Common spaces: 3 (Gym, Library, Multipurpose)

Student Capacity: 750
Current Enrollment: 627


Jones is our fastest growing school as many of our Joliet subdivisions have continued to thrive.

## K-8 Capacity vs Enrollment, Current (No MPC)

Total Capacity, K-4-3,000

- AUX - 750
- MES - 750
- JES - 750
- WTES-750

Total Capacity, 5-8-2,000

- MIS - 1,000
- MJHS - 1,000

Total Enrollment, K-4-2,501

- AUX-708
- MES - 590
- JES - 627
- WTES - 576

Total Enrollment, 5-8-1,934

- MIS-944
- MJHS -990

NOTE: Grundy County Special Education Classrooms also take up classroom space at JES, WTES, MIS and MJHS

## 66

Remaining Capacity with our current 5-8 configuration

## Enrollment Projections

Cohort Retention Method:
The most recognized method for projecting enrollment shifts is called Cohort Retention. This method tracks grade level cohorts and measures the rate at which they fluctuate from year to year. This rate, or rates if multiple years are tracked, are applied to our enrollments going forward.

For example, if 100 1st graders in 2015-16 grew to 110 2nd graders in 2016-17, the rate would be 1.1. For Minooka 201, a 2 year average rate has been the best predictor over the past few years.

## Buildings projected to exceed capacity within five years

Aux Sable Elementary - Projected enrollment of 754 in 2018-19 (750 cap)
Jones Elementary - Projection of 802 by 2019-20 (750 cap)
Minooka Intermediate - Projection of 1,059 by 2017-18 (1,000 cap)
Minooka Junior High - Projection of 1,112 by 2019-20 (1,000 cap)
District wide - Projected enrollment of 5,227 by 2019-20 (5,000 cap)

## Rationale for Facilities Planning - again

## Bottom Line:

Minooka CCSD 201 will need to have additional educational space ready for the start of the 2019-20 school year for grades K - 8 .

## Next meeting - April 26, 2017

- Recap information from 4/19/17
- More info needed? Explore other projection methods?
- Explore current developments within Minooka 201 boundaries
- Create consensus on enrollment projections, classroom needs
- Explore options for creating new classroom space


# Minooka CCSD 201 Facilities Advisory Committee <br> April 19, 2017 

## Minooka CCSD 201 Facilities Advisory Committee

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## APPENDIX C: Current housing developments within Minooka CCSD 201

Minooka CCSD 201 Administration solicits updates from our municipalities regarding the status of current and proposed housing and economic developments within our boundaries. The Committee reviewed the geographic boundaries of Minooka 201 and used the Comprehensive Plans from Channahon, Minooka, Shorewood and Joliet to detail the possible areas for housing growth to occur within Minooka 201.

The Comprehensive Plans themselves are large and detailed documents publicly available on the respective websites of our municipalities. See the websites below for detailed information:

- Village of Channahon -
http://www.channahon.org/business/comprehensive-plan/
- Village of Minooka -
https://www.minooka.com/documents/2013-comprehensive-plan-land-use-map/
- Village of Shorewood-
http://vil.shorewood.il.us/departments/community-development/comprehensiveplan.aspx
- City of Joliet - Kendall County Section -
http://cityofjoliet.info/home/showdocument?id=1517
The following documents details the subdivisions existing or currently under development within the boundaries of Minooka CCSD 201. Finally, projected student counts for the development are calculated using real data from the existing subdivision. The Committee used this data as supporting material as they came to consensus on the appropriate enrollment projections to be used in their efforts.

| Appendix C - Current and Proposed Housing Developments |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | COUNTY | EC | Kdgtn | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | TOTAL | Permits Issued | Total Permits | Permits Avail. | K-4 Density | $\begin{gathered} 5-8 \\ \text { Density } \end{gathered}$ | Add'I K-4 | Add'I 5-8 |
| Aux Sable Elementary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Amberleigh Estates | Grundy | 7 | 12 | 22 | 19 | 21 | 23 | 21 | 25 | 19 | 25 | 194 |  |  |  |  |  |  |  |
| Arbor Lakes | Grundy | 2 | 12 | 16 | 12 | 12 | 14 | 13 | 16 | 8 | 6 | 111 |  |  |  |  |  |  |  |
| Chestnut Ridge | Grundy | 4 | 5 | 7 | 4 | 8 | 7 | 8 | 7 | 5 | 6 | 61 |  |  |  |  |  |  |  |
| Deer Ridge | Grundy | 1 | 2 | 3 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 20 | 38 | 50 | 12 | 0.26316 | 0.23684 | 3.16 | 2.84 |
| Dresden Acres | Grundy | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 19 |  |  |  |  |  |  |  |
| Eagles Approachway | Grundy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  |  |  |  |  |  |  |
| Hunters Crossing | Grundy | 3 | 10 | 17 | 9 | 12 | 8 | 15 | 15 | 17 | 14 | 120 | 197 | 350 | 153 | 0.28426 | 0.30964 | 43.49 | 47.38 |
| Hunters West | Grundy | 2 | 6 | 7 | 4 | 11 | 6 | 18 | 8 | 7 | 16 | 85 |  |  |  |  |  |  |  |
| Keating Pointe | Grundy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |
| Lakewood Trails West | Grundy | 8 | 16 | 21 | 22 | 17 | 22 | 29 | 21 | 26 | 20 | 202 |  |  |  |  |  |  |  |
| Mallard Point | Grundy | 0 | 3 | 1 | 3 | 4 | 4 | 3 | 2 | 1 | 1 | 22 |  |  |  |  |  |  |  |
| Misty Creek | Grundy | 2 | 3 | 10 | 6 | 11 | 12 | 7 | 10 | 12 | 10 | 83 |  |  |  |  |  |  |  |
| Reflections | Grundy | 0 | 6 | 4 | 7 | 5 | 4 | 4 | 2 | 6 | 4 | 42 |  |  |  |  |  |  |  |
| SE Country | Grundy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |  |  |  |  |  |  |  |
| SE Country | Will | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |  |  |  |  |  |  |  |
| SW Country | Kendall | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 5 |  |  |  |  |  |  |  |
| SW Country | Grundy | 0 | 0 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 12 |  |  |  |  |  |  |  |
| The Highlands | Grundy | 6 | 7 | 15 | 13 | 20 | 18 | 23 | 14 | 13 | 20 | 149 | 228 | 250 | 22 | 0.32018 | 0.30702 | 7.04 | 6.75 |
| Wedgewood Highlands | Grundy | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 16 | 79 | 63 | 0.18750 | 0.12500 | 11.81 | 7.88 |
| Westwind Estates | Grundy | 2 | 13 | 11 | 16 | 18 | 11 | 13 | 15 | 11 | 11 | 121 | 200 | 215 | 15 | 0.34500 | 0.25000 | 5.18 | 3.75 |
| Whispering Oaks | Grundy | 0 | 0 | 1 | 4 | 1 | 2 | 2 | 0 | 3 | 0 | 13 | 16 | 107 | 91 | 0.50000 | 0.31250 | 45.50 | 28.44 |
| Woods of Aux Sable | Grundy | 0 | 1 | 2 | 0 | 2 | 0 | 2 | 1 | 2 | 0 | 10 | 200 | 215 | 15 | 0.02500 | 0.02500 | 0.38 | 0.38 |
|  |  | 37 | 96 | 143 | 124 | 148 | 138 | 169 | 143 | 140 | 140 | 1278 | Avail | able Units | 371 | Students | 163.75 | 116.56 | 47.19 |
| Jones Elementary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hunters Ridge | Kendall | 2 | 6 | 8 | 13 | 12 | 11 | 9 | 5 | 8 | 6 | 80 |  |  |  |  |  |  |  |
| Kearney Glen | Kendall | 6 | 13 | 24 | 13 | 18 | 20 | 14 | 14 | 12 | 26 | 160 | 180 | 204 | 24 | 0.48889 | 0.36667 | 11.73 | 8.80 |
| Lakewood Prairie | Kendall | 5 | 20 | 30 | 33 | 28 | 41 | 23 | 30 | 24 | 26 | 260 | 915 | 945 | 30 | 0.16612 | 0.11257 | 4.98 | 3.38 |
| Neustoneshire | Kendall | 1 | 5 | 12 | 5 | 7 | 3 | 9 | 7 | 8 | 10 | 67 | 123 | 411 | 288 | 0.26016 | 0.27642 | 74.93 | 79.61 |
| NW Country | Kendall | 0 | 2 | 7 | 3 | 7 | 5 | 9 | 8 | 9 | 6 | 56 |  |  |  |  |  |  |  |
| Sable Ridge | Kendall | 7 | 11 | 29 | 29 | 27 | 35 | 21 | 26 | 18 | 27 | 230 | 850 | 1022 | 172 | 0.15412 | 0.10824 | 26.51 | 18.62 |
| Summerfield | Kendall | 5 | 19 | 34 | 19 | 23 | 16 | 23 | 21 | 22 | 25 | 207 | 489 | 489 | 0 | 0.22699 | 0.18609 | 0.00 | 0.00 |
|  |  | 26 | 76 | 144 | 115 | 122 | 131 | 108 | 111 | 101 | 126 | 1060 | Avail | lable Units | 1069 | Students | 228.56 | 118.15 | 110.40 |
| Minooka Elementary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cumberland Estates | Grundy | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 6 |  |  |  |  |  |  |  |
| Eden Hills | Grundy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |
| Grand Ridge | Grundy | 1 | 3 | 7 | 8 | 8 | 11 | 10 | 4 | 12 | 13 | 77 | 144 | 152 | 8 | 0.25694 | 0.27083 | 2.06 | 2.17 |
| Heather Ridge | Grundy | 1 | 6 | 1 | 5 | 7 | 7 | 6 | 5 | 7 | 10 | 55 |  |  |  |  |  |  |  |
| Indian Ridge | Grundy | 0 | 4 | 4 | 4 | 3 | 5 | 7 | 14 | 3 | 8 | 52 | 150 | 200 | 50 | 0.13333 | 0.21333 | 6.67 | 10.67 |
| Lakewood Trails East | Grundy | 6 | 23 | 17 | 33 | 31 | 28 | 36 | 34 | 35 | 32 | 275 |  |  |  |  |  |  |  |
| Ninovan Lake Estates | Grundy | 1 | 2 | 2 | 5 | 3 | 0 | 3 | 2 | 1 | 3 | 22 |  |  |  |  |  |  |  |
| Prairie Ridge | Grundy | 3 | 12 | 22 | 20 | 22 | 18 | 27 | 31 | 19 | 25 | 199 |  |  |  |  |  |  |  |
| Shady Oaks | Grundy | 0 | 7 | 7 | 11 | 17 | 18 | 17 | 16 | 12 | 13 | 118 |  |  |  |  |  |  |  |
| The Meadows | Grundy | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 1 | 3 | 9 |  |  |  |  |  |  |  |
| Town South | Grundy | 1 | 5 | 6 | 14 | 7 | 14 | 10 | 14 | 10 | 5 | 86 |  |  |  |  |  |  |  |
| Town North | Grundy | 5 | 9 | 15 | 23 | 17 | 22 | 12 | 11 | 16 | 10 | 140 |  |  |  |  |  |  |  |


| Appendix C - Current and Proposed Housing Developments |  |  |  |  |  |  |  | 5th | 6th | 7th | 8th | TOTAL | Permits Issued | Total Permits | Permits Avail. | $\begin{gathered} \text { K-4 } \\ \text { Density } \end{gathered}$ | $\begin{gathered} 5-8 \\ \text { Density } \end{gathered}$ | Add'I K-4 | Add' 5-8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | COUNTY | EC | Kdgtn | 1st | 2nd | 3rd | 4th |  |  |  |  |  |  |  |  |  |  |  |  |
| Aux Sable Elementary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Westview | Grundy | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 22 | 28 | 6 | 0.13636 | 0.09091 | 0.82 | 0.55 |
|  |  | 18 | 72 | 83 | 127 | 116 | 126 | 130 | 131 | 117 | 124 | 1044 | Avail | able Units | 64 | Students | 22.92 | 9.54 | 13.38 |
| Walnut Trails Elementary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Camelot | Will | 0 | 6 | 10 | 7 | 6 | 10 | 11 | 5 | 6 | 7 | 68 |  |  |  |  |  |  |  |
| Estates of Hidden Creek | Will | 0 | 3 | 8 | 7 | 4 | 8 | 2 | 5 | 4 | 4 | 45 |  |  |  |  |  |  |  |
| Hunt Club | Will | 1 | 0 | 3 | 10 | 6 | 8 | 6 | 4 | 6 | 2 | 46 |  |  |  |  |  |  |  |
| Kipling Estates | Will | 7 | 25 | 34 | 43 | 35 | 30 | 33 | 43 | 39 | 41 | 330 | 630 | 641 | 11 | 0.26508 | 0.24762 | 2.92 | 2.72 |
| Lake Forrest | Will | 2 | 7 | 8 | 12 | 4 | 12 | 9 | 8 | 9 | 9 | 80 | 297 | 447 | 150 | 0.14478 | 0.11785 | 21.72 | 17.68 |
| Minwood Glen | Will | 0 | 1 | 1 | 3 | 0 | 1 | 2 | 3 | 0 | 0 | 11 |  |  |  |  |  |  |  |
| NE Country | Will | 0 | 0 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 3 | 19 |  |  |  |  |  |  |  |
| Red Oak Estates | Will | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |  |  |  |  |  |  |  |
| River Oaks | Will | 4 | 2 | 5 | 14 | 10 | 10 | 15 | 9 | 8 | 13 | 90 |  |  |  |  |  |  |  |
| Shorewood Towne Cent | Will | 1 | 4 | 5 | 5 | 3 | 5 | 3 | 3 | 4 | 4 | 37 | 91 | 233 | 142 | 0.24176 | 0.15385 | 34.33 | 21.85 |
| Vintage | Will | 0 | 4 | 2 | 2 | 5 | 4 | 7 | 6 | 2 | 3 | 35 |  |  |  |  |  |  |  |
| Walnut Trails | Will | 1 | 10 | 24 | 11 | 24 | 24 | 23 | 16 | 16 | 18 | 167 |  |  |  |  |  |  |  |
| Westminster Gardens | Will | 1 | 2 | 6 | 2 | 5 | 4 | 4 | 0 | 4 | 1 | 29 | 48 | 179 | 131 | 0.39583 | 0.18750 | 51.85 | 24.56 |
|  |  | 17 | 68 | 108 | 120 | 103 | 119 | 117 | 104 | 102 | 105 | 963 | Available Units |  | 434 | Students | 177.63 | 110.82 | 66.81 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Out of District |  | 1 | 0 | 2 | 1 | 3 | 1 | 1 | 0 | 1 | 0 | 10 |  |  |  |  | Total 5-8 Students |  | 237.78 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL STUDENTS |  | 99 | 312 | 480 | 487 | 492 | 515 | 525 | 489 | 461 | 495 | 4355 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shaded indicates inactive or completed developments |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# Minooka CCSD 201 Facilities Advisory Committee <br> Recommendation to the Board of Education 

November 20, 2017

## APPENDIX D: Enrollment Projections from May 2017 - low, middle and high models

Minooka CCSD 201 prepares enrollment projections in the fall of each year and adjusts them periodically as new data becomes available. The projections initially used by the Committee were first shared with the Board of Education in November 2016. After early discussions with the Committee, new models were prepared for their consideration.

Each enrollment projection is prepared using the cohort retention model, a commonly used method throughout the field of education. In this method each grade level, referred to as "cohorts," is tracked as it progresses through our schools, noting how the kindergarten class one year grows or shrinks as they become first grade students, how the first graders change as they move into second grade, etc. An average rate of retention is calculated for each cohort using data from the previous years, then that rate is used to project how our current enrollments will change going forward.

The following projections include both the historical data and the projections. A summary table is shown at the beginning of each projection. After studying the previous projections compared to actual data, we have used the 2 year average retention rate for our Elementary levels and a 4 year average rate for our Intermediate and Junior High levels. Kindergarten, always the most difficult grade to project, used the rate of growth seen the previous year. As shown in the Executive Summary, the range of enrollments studied are shown in the table below.

| Grade Level | Current Capacity | Low (Base) Model | Medium Growth | High Growth |
| :---: | :---: | :---: | :---: | :---: |
| Kindergarten - 4th <br> Grade | 3,000 | 3,060 | $\underline{3,200}$ | 3,537 |
| 5th - 6th Grade | 1,000 | 1,221 | $\underline{1,255}$ | 1,191 |
| 7th - 8th Grade | 1,000 | 1,179 | $\underline{1,380}$ | 1,311 |

After consideration by the Committee, they requested additional projections that factored in more growth. We then created the Mid Model, which added slight growth in the Jones Elementary and Aux Sable Elementary schools. The High Model added additional growth to all schools. The growth rates can be seen in the blue shaded cells at the bottom of the summary table in each projection.

From there, the Committee came to consensus to utilize the Mid Model as the basis for their capacity and classroom space discussions. The projection yielded results that showed two elementary schools and our Intermediate and Junior High Schools exceeding their capacity in 2018-19. All options generated to create additional classroom space used these figures as its foundation.

| Historical Enrollments |  |  |  |  |  |  |  |  |  | $\begin{array}{cc} \text { Total K- } & \text { Total } \\ 5 & 5-6 \end{array}$ |  | $\begin{gathered} \text { Total } \\ 7-8 \end{gathered}$ | Total | Pre-KDG |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | KDG | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th |  |  |  |  |  |  |
| 2009-10 | 426 | 434 | 451 | 440 | 429 | 433 | 408 | 400 | 388 | 2180 | 841 | 788 | 3809 |  |  |
| 2010-11 | 371 | 451 | 436 | 438 | 435 | 433 | 419 | 412 | 394 | 2131 | 852 | 806 | 3789 |  |  |
| 2011-12 | 411 | 396 | 441 | 441 | 435 | 420 | 424 | 428 | 407 | 2124 | 844 | 835 | 3803 |  |  |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 453 | 436 | 434 | 433 | 2183 | 889 | 867 | 3939 |  |  |
| 2013-14 | 408 | 467 | 452 | 417 | 454 | 459 | 453 | 446 | 435 | 2198 | 912 | 881 | 3991 |  |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 469 | 479 | 462 | 456 | 2240 | 948 | 918 | 4106 |  | Total |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 438 | 489 | 481 | 483 | 2371 | 927 | 964 | 4262 | 211 | Students |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 491 | 456 | 497 | 486 | 2476 | 947 | 983 | 4406 | 211 | 4617 |
| 11/15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Projection | 465 | 482 | 474 | 507 | 517 | 502 | 457 | 495 | 498 | 2445 | 959 | 993 | 4397 |  |  |
| +/- | 8 | 1 | 8 | 3 | 11 | -11 | -1 | 2 | -12 | 31 | -12 | -10 | 9 | Total dif from | projection |
| Retention Rate: |  | Elementary |  | $\underline{2}$ Year Rate |  | MIS/MJHS |  | 4 Year Rate |  |  |  |  |  |  |  |
| Kindergarten Rate Projections |  | 1 year |  |  |  |  |  |  |  | Total K5 | Total 5-6 | Total 7-8 | Total | Pre-KDG | Total Students |
| 2017-18 | 498 | 490 | 523 | 510 | 529 | 548 | 512 | 464 | 509 | 2550 | 1060 | 973 | 4583 | 211 | 4794 |
| 2018-19 | 525 | 515 | 530 | 552 | 530 | 549 | 571 | 521 | 475 | 2652 | 1120 | 996 | 4768 | 211 | 4979 |
| 2019-20 | 552 | 542 | 557 | 560 | 572 | 550 | 572 | 581 | 533 | 2783 | 1122 | 1114 | 5019 | 211 | 5230 |
| 2020-21 | 581 | 571 | 586 | 588 | 581 | 593 | 573 | 582 | 595 | 2907 | 1166 | 1177 | 5250 | 211 | 5461 |
| 2021-22 | 612 | 602 | 617 | 620 | 609 | 603 | 618 | 583 | 596 | 3060 | 1221 | 1179 | 5460 | 211 | 5671 |
| EL Building Projections |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AUX | KDG | 1st | 2nd | 3rd | 4th | Total |  |  | MES | KDG | 1st | 2nd | 3rd | 4th | Total |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 |  |  | 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |
| 2017-18 | 145 | 143 | 131 | 152 | 140 | 711 |  |  | 2017-18 | 88 | 86 | 136 | 124 | 131 | 565 |
| 2018-19 | 153 | 150 | 155 | 138 | 158 | 754 |  |  | 2018-19 | 93 | 91 | 93 | 144 | 129 | 550 |
| 2019-20 | 161 | 158 | 162 | 164 | 143 | 788 |  |  | 2019-20 | 98 | 96 | 99 | 98 | 149 | 540 |
| 2020-21 | 169 | 166 | 171 | 171 | 170 | 847 |  |  | 2020-21 | 103 | 102 | 104 | 105 | 102 | 516 |
| 2021-22 | 178 | 175 | 179 | 181 | 177 | 890 |  |  | 2021-22 | 109 | 107 | 110 | 110 | 109 | 545 |
| JES | KDG | 1st | 2nd | 3rd | 4th | Total |  |  | WT | KDG | 1st | 2nd | 3rd | 4th | Total |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 |  |  | 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |
| 2017-18 | 149 | 147 | 129 | 123 | 136 | 684 |  |  | 2017-18 | 116 | 114 | 127 | 111 | 122 | 590 |
| 2018-19 | 157 | 154 | 159 | 136 | 128 | 734 |  |  | 2018-19 | 122 | 120 | 123 | 134 | 115 | 614 |
| 2019-20 | 165 | 162 | 166 | 168 | 141 | 802 |  |  | 2019-20 | 128 | 126 | 130 | 130 | 139 | 653 |
| 2020-21 | 174 | 171 | 175 | 175 | 174 | 869 |  |  | 2020-21 | 135 | 132 | 136 | 137 | 135 | 675 |
| 2021-22 | 183 | 180 | 185 | 185 | 181 | 914 |  |  | 2021-22 | 142 | 140 | 143 | 144 | 142 | 711 |


|  | AUX | JES | MES | WTES | MIS | MJHS |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Add'I Growth Rate | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ |

[^0]| Historical Enrollments |  |  |  |  |  |  |  |  |  | $\begin{array}{cc} \text { Total K- } & \text { Total } \\ 5 & 5-6 \end{array}$ |  | $\begin{gathered} \text { Total } \\ 7-8 \end{gathered}$ | Total | Pre-KDG |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | KDG | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th |  |  |  |  |  |  |
| 2009-10 | 426 | 434 | 451 | 440 | 429 | 433 | 408 | 400 | 388 | 2180 | 841 | 788 | 3809 |  |  |
| 2010-11 | 371 | 451 | 436 | 438 | 435 | 433 | 419 | 412 | 394 | 2131 | 852 | 806 | 3789 |  |  |
| 2011-12 | 411 | 396 | 441 | 441 | 435 | 420 | 424 | 428 | 407 | 2124 | 844 | 835 | 3803 |  |  |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 453 | 436 | 434 | 433 | 2183 | 889 | 867 | 3939 |  |  |
| 2013-14 | 408 | 467 | 452 | 417 | 454 | 459 | 453 | 446 | 435 | 2198 | 912 | 881 | 3991 |  |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 469 | 479 | 462 | 456 | 2240 | 948 | 918 | 4106 |  | Total |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 438 | 489 | 481 | 483 | 2371 | 927 | 964 | 4262 | 211 | Students |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 491 | 456 | 497 | 486 | 2476 | 947 | 983 | 4406 | 211 | 4617 |
| 11/15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Projection | 465 | 482 | 474 | 507 | 517 | 502 | 457 | 495 | 498 | 2445 | 959 | 993 | 4397 |  |  |
| +/- | 8 | 1 | 8 | 3 | 11 | -11 | -1 | 2 | -12 | 31 | -12 | -10 | $\underline{9}$ | Total dif from | projection |
| Retention Rate: |  | Elementary |  | $\underline{2}$ Year Rate |  | MIS/MJHS |  | 4 Year Rate |  |  |  |  |  |  |  |
| Kindergarten Rate Projections |  | 1 year |  |  |  |  |  |  |  | Total K- | Total | Total |  |  | Total |
|  |  |  |  |  |  |  |  |  |  | 5 | 5-6 |  | Total | Pre-KDG | Students |
| 2017-18 | 503 | 494 | 526 | 514 | 533 | 548 | 512 | 464 | 509 | 2570 | 1060 | 973 | 4603 | 211 | 4814 |
| 2018-19 | 534 | 525 | 538 | 560 | 537 | 553 | 571 | 521 | 475 | 2694 | 1124 | 996 | 4814 | 211 | 5025 |
| 2019-20 | 567 | 557 | 573 | 573 | 585 | 557 | 576 | 581 | 533 | 2855 | 1133 | 1114 | 5102 | 211 | 5313 |
| 2020-21 | 602 | 592 | 607 | 610 | 600 | 607 | 581 | 586 | 595 | 3011 | 1188 | 1181 | 5380 | 211 | 5591 |
| 2021-22 | 640 | 629 | 646 | 647 | 638 | 622 | 633 | 591 | 600 | 3200 | 1255 | 1191 | 5646 | 211 | 5857 |
| EL Building Projections |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AUX | KDG | 1st | 2nd | 3rd | 4th | Total |  |  | MES | KDG | 1st | 2nd | 3rd | 4th | Total |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 |  |  | 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |
| 2017-18 | 147 | 144 | 132 | 154 | 141 | 718 |  |  | 2017-18 | 88 | 86 | 136 | 124 | 131 | 565 |
| 2018-19 | 156 | 154 | 157 | 141 | 161 | 769 |  |  | 2018-19 | 93 | 91 | 93 | 144 | 129 | 550 |
| 2019-20 | 166 | 163 | 168 | 167 | 148 | 812 |  |  | 2019-20 | 98 | 96 | 99 | 98 | 149 | 540 |
| 2020-21 | 176 | 173 | 178 | 179 | 175 | 881 |  |  | 2020-21 | 103 | 102 | 104 | 105 | 102 | 516 |
| 2021-22 | 187 | 184 | 189 | 190 | 187 | 937 |  |  | 2021-22 | 109 | 107 | 110 | 110 | 109 | 545 |
| JES | KDG | 1st | 2nd | 3rd | 4th | Total |  |  | WT | KDG | 1st | 2nd | 3rd | 4th | Total |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 |  |  | 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |
| 2017-18 | 152 | 150 | 131 | 125 | 139 | 697 |  |  | 2017-18 | 116 | 114 | 127 | 111 | 122 | 590 |
| 2018-19 | 163 | 160 | 165 | 141 | 132 | 761 |  |  | 2018-19 | 122 | 120 | 123 | 134 | 115 | 614 |
| 2019-20 | 175 | 172 | 176 | 178 | 149 | 850 |  |  | 2019-20 | 128 | 126 | 130 | 130 | 139 | 653 |
| 2020-21 | 188 | 185 | 189 | 189 | 188 | 939 |  |  | 2020-21 | 135 | 132 | 136 | 137 | 135 | 675 |
| 2021-22 | 202 | 198 | 204 | 203 | 200 | 1007 |  |  | 2021-22 | 142 | 140 | 143 | 144 | 142 | 711 |


|  | AUX | JES | MES | WTES | MIS | MJHS |
| :--- | :--- | :--- | ---: | ---: | ---: | ---: |
| Add'I Growth Rate | $1.0 \%$ | $2.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ |

6000 Minooka CCSD 201 Enrollment Projections, K-8


## Projected 5-8 Enrollment

Minooka CCSD 201
1300


| AUX | K | 1 | 2 | 3 | 4 | K-4 Total | \|MES | K | 1 | 2 | 3 | 4 | K-4 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2009-10 | 125 | 174 | 149 | 170 | 148 | 766 | 2009-10 | 124 | 79 | 96 | 91 | 98 | 488 |
| 2010-11 | 103 | 148 | 176 | 142 | 173 | 742 | 2010-11 | 102 | 99 | 79 | 96 | 89 | 465 |
|  |  | 18.40\% | 1.15\% | -4.70\% | 1.76\% |  |  |  | -20.16\% | 0.00\% | 0.00\% | -2.20\% |  |
| 2011-12 | 113 | 113 | 118 | 140 | 126 | 610 | 2011-12 | 112 | 111 | 118 | 118 | 107 | 566 |
|  | 9.71\% | 9.71\% | -20.27\% | -20.45\% | -11.27\% |  |  | 9.80\% | 8.82\% | 19.19\% | 49.37\% | 11.46\% |  |
| 2012-13 | 138 | 104 | 117 | 117 | 140 | 616 | 2012-13 | 138 | 132 | 115 | 117 | 125 | 627 |
|  | 22.12\% | -7.96\% | 3.54\% | -0.85\% | 0.00\% |  |  | 23.21\% | 17.86\% | 3.60\% | -0.85\% | 5.93\% |  |
| 2013-14 | 118 | 156 | 118 | 123 | 123 | 638 | 2013-14 | 118 | 122 | 129 | 117 | 117 | 603 |
|  | -14.49\% | 13.04\% | 13.46\% | 5.13\% | 5.13\% |  |  | -14.49\% | -11.59\% | -2.27\% | 1.74\% | 0.00\% |  |
| 2014-15 | 118 | 117 | 166 | 127 | 128 | 656 | 2014-15 | 118 | 129 | 119 | 126 | 111 | 603 |
|  |  | -0.85\% | 6.41\% | 7.63\% | 4.07\% |  |  | 0.00\% | 9.32\% | -2.46\% | -2.33\% | -5.13\% |  |
| 2015-16 | 118 | 131 | 134 | 166 | 127 | 676 | 2015-16 | 116 | 110 | 125 | 126 | 137 | 614 |
|  |  | 11.02\% | 14.53\% | 0.00\% | 0.00\% |  |  | -1.69\% | -6.78\% | -3.10\% | 5.88\% | 8.73\% |  |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 | 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |
| 1 year | 0.00\% | 11.02\% | 14.53\% | 0.00\% | 0.00\% |  | Cohort | -1.69\% | -6.78\% | -3.10\% | 5.88\% | 8.73\% |  |
| 2 Year Rate | 0.00\% | 5.08\% | 10.47\% | 3.81\% | 2.03\% |  |  | -0.85\% | 1.27\% | -2.78\% | 1.78\% | 1.80\% |  |
| 3 Year Rate | -7.25\% | 7.74\% | 11.47\% | 4.25\% | 3.06\% |  |  | -5.40\% | -3.02\% | -2.61\% | 1.77\% | 1.20\% |  |
| 4 Year Rate | 2.54\% | 3.81\% | 9.49\% | 2.98\% | 2.30\% |  |  | 1.76\% | 2.20\% | -1.06\% | 1.11\% | 2.38\% |  |
| JES | K | 1 | 2 | 3 | 4 | K-4 Total | WTS | K | 1 | 2 | 3 | 4 | K-4 Total |
| 2009-10 | 97 | 86 | 86 | 88 | 75 | 432 | 2009-10 | 80 | 95 | 120 | 91 | 108 | 494 |
| 2010-11 | 87 | 105 | 77 | 80 | 85 | 434 | 2010-11 | 79 | 99 | 104 | 120 | 88 | 490 |
|  |  | 8.25\% | -10.47\% | -6.98\% | -3.41\% |  |  |  | 23.75\% | 9.47\% | 0.00\% | -3.30\% |  |
| 2011-12 | 94 | 88 | 106 | 80 | 81 | 449 | 2011-12 | 92 | 84 | 99 | 103 | 121 | 499 |
|  | 8.05\% | 1.15\% | 0.95\% | 3.90\% | 1.25\% |  |  | 16.46\% | 6.33\% | 0.00\% | -0.96\% | 0.83\% |  |
| 2012-13 | 96 | 102 | 85 | 111 | 70 | 464 | 2012-13 | 80 | 102 | 89 | 101 | 104 | 476 |
|  | 2.13\% | 8.51\% | -3.41\% | 4.72\% | -12.50\% |  |  | -13.04\% | 10.87\% | 5.95\% | 2.02\% | 0.97\% |  |
| 2013-14 | 92 | 90 | 101 | 86 | 113 | 482 | 2013-14 | 80 | 99 | 104 | 91 | 101 | 475 |
|  | -4.17\% | -6.25\% | -0.98\% | 1.18\% | 1.80\% |  |  | 0.00\% | 23.75\% | 1.96\% | 2.25\% | 0.00\% |  |
| 2014-15 | 96 | 102 | 95 | 107 | 79 | 479 | 2014-15 | 90 | 102 | 103 | 108 | 99 | 502 |
|  | 4.35\% | 10.87\% | 5.56\% | 5.94\% | -8.14\% |  |  | 12.50\% | 27.50\% | 4.04\% | 3.85\% | 8.79\% |  |
| 2015-16 | 104 | 105 | 110 | 104 | 110 | 533 | 2015-16 | 113 | 101 | 115 | 112 | 107 | 548 |
|  | 8.33\% | 9.38\% | 7.84\% | 9.47\% | 2.80\% |  |  | 25.56\% | 12.22\% | 12.75\% | 8.74\% | -0.93\% |  |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 | 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |
|  | 8.33\% | 9.38\% | 7.84\% | 9.47\% | 2.80\% |  |  | 25.56\% | 12.22\% | 12.75\% | 8.74\% | -0.93\% |  |
|  | 6.34\% | 10.12\% | 6.70\% | 7.71\% | -2.67\% |  |  | 19.03\% | 19.86\% | 8.39\% | 6.29\% | 3.93\% |  |
|  | 2.84\% | 4.66\% | 4.14\% | 5.53\% | -1.18\% |  |  | 12.69\% | 21.16\% | 6.25\% | 4.94\% | 2.62\% |  |
|  | 2.66\% | 5.63\% | 2.25\% | 5.33\% | -4.01\% |  |  | 6.25\% | 18.59\% | 6.17\% | 4.21\% | 2.21\% |  |
| EL Totals | K | 1 | 2 | 3 | 4 | K-4 Total |  | MIN201 | K-4 | 5-6 | 7-8 | Total |  |
| 2009-10 | 426 | 434 | 451 | 440 | 429 | 2180 |  | 2009-10 | 2180 | 841 | 788 | 3809 |  |
| 2010-11 | 371 | 451 | 436 | 438 | 435 | 2131 |  | 2010-11 | 2131 | 852 | 806 | 3789 |  |
|  |  | 1.05869 | 1.00461 | 0.97118 | 0.98864 |  |  |  |  |  | 0 |  |  |
| 2011-12 | 411 | 396 | 441 | 441 | 435 | 2124 |  | 2011-12 | 2124 | 844 | 835 | 3803 |  |
|  |  | 1.06739 | 0.97783 | 1.01147 | 0.99315 |  |  |  |  |  | 0 |  |  |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 2183 |  | 2012-13 | 2183 | 889 | 867 | 3939 |  |


| 2013-14 | 408 | 1.07056 | 1.02525 | 1.01134 | 0.99546 | 2198 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 467 | 452 | 417 | 454 |  |
|  |  | 1.03319 | 1.02727 | 1.02709 | 1.01794 |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 2240 |
|  |  | 1.10294 | 1.03426 | 1.03540 | 1.00000 |  |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 2371 |
|  |  | 1.05924 | 1.07556 | 1.05176 | 1.02778 |  |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |
| Cohort | 422 | 1.10294 | 1.03426 | 1.03540 | 1.00000 |  |
|  | 415 | 1.06806 | 1.03077 | 1.03125 | 1.00897 |  |
|  | 427 | 1.06890 | 1.02893 | 1.02461 | 1.00447 |  |
|  | 423 | 1.06852 | 1.01615 | 1.02132 | 1.00164 |  |
| Int/MJHS2009-10$2010-11$ | 5 | 6 | MIS Tot | 7 | 8 | MJH Tot |
|  | 433 | 408 | 841 | 400 | 388 | 788 |
|  | 433 | 419 | 852 | 412 | 394 | 806 |
|  | 1.0093 | 0.9677 | 844 | 1.0098 | 0.9850 |  |
| 2011-12 | 420 | 424 |  | 428 | 407 | 835 |
|  | 0.9655 | 0.9792 |  | 1.0215 | 0.9879 |  |
| 2012-13 | 453 | 436 | 889 | 434 | 433 | 867 |
|  | 1.0414 | 1.0381 |  | 1.0236 | 1.0117 |  |
| 2013-14 | 459 | 453 | 912 | 446 | 435 | 881 |
|  | 1.0456 | 1.0000 |  | 1.0229 | 1.0023 |  |
| 2014-15 | 469 | 479 | 948 | 462 | 456 | 918 |
|  | 1.0330 | 1.0436 |  | 1.0199 | 1.0224 |  |
| 2015-16 | 438 | 489 | 927 | 481 | 483 | 964 |
|  | 1.0504 | 1.0426 |  | 1.0042 | 1.0455 |  |
| 2016-17 | 491 | 456 | 947 | 497 | 486 | 983 |
| Cohort | 1.0208 | 1.0411 |  | 1.0164 | 1.0104 |  |
|  | 1.0356 | 1.0419 |  | 1.0103 | 1.0279 |  |
|  | 1.0347 | 1.0424 |  | 1.0135 | 1.0261 |  |
|  | 1.0364 | 1.0414 |  | 1.0160 | 1.0225 |  |


|  |  | 0 | 0 |  |
| :---: | :---: | ---: | ---: | ---: |
| $2013-14$ | 2198 | 912 | 881 | 3991 |
|  |  | 0 | 0 |  |
| $2014-15$ | 2240 | 948 | 918 | 4106 |
|  |  | 0 | 0 |  |
| $2015-16$ | 2371 | 927 | 964 | 4262 |
|  |  | 0 | 0 |  |
| $2016-17$ | 2476 | 947 | 983 | 4406 |

Elementary School Projections

| EL Totals | K | 1 | 2 | 3 | 4 | K-5 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 2183 |
|  |  | 1.05342 | 0.99558 | 0.99567 | 1.00210 |  |
| 2013-14 | 408 | 467 | 452 | 417 | 454 | 2198 |
|  | 0.90265 | 1.18095 | 1.02637 | 0.99778 | 1.01739 |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 2240 |
|  | 1.03431 | 1.12195 | 0.96976 | 1.03953 | 1.02000 |  |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 2371 |
|  | 1.06872 | 0.99113 | 1.07556 | 1.05176 | 1.02778 |  |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |
| 1 year | 1.04878 | 1.07095 | 1.07830 | 1.05372 | 1.03937 |  |
| 2 Year Rate | 1.05875 | 1.03104 | 1.07693 | 1.05274 | 1.03357 |  |
| 3 Year Rate | 1.05060 | 1.06135 | 1.04120 | 1.04833 | 1.02905 |  |
| 4 Year Rate | 1.01362 | 1.09125 | 1.03750 | 1.03570 | 1.02613 |  |
|  |  | Retention R | te Used | 2 Year R |  |  |
| Assumptions |  |  |  |  |  |  |
| KDG Rate | 1 year |  |  |  |  |  |
| AUX | K | 1 | 2 | 3 | 4 | K-5 Total |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 |
| Increase | 20 | 4 | -22 | 8 | 42 | 52 |
| 2017-18 | 147 | 144 | 132 | 154 | 141 | 718 |
| Increase | 9 | 23 | -12 | 19 | -29 | 10 |
| 2018-19 | 156 | 154 | 157 | 141 | 161 | 769 |
| Increase | 9 | 10 | 25 | -13 | 20 | 51 |
| 2019-20 | 166 | 163 | 168 | 167 | 148 | 812 |
| Increase | 10 | 9 | 11 | 26 | -13 | 43 |
| 2020-21 | 176 | 173 | 178 | 179 | 175 | 881 |
| Increase | 10 | 10 | 10 | 12 | 27 | 69 |
| 2021-22 | 187 | 184 | 189 | 190 | 187 | 937 |
| Increase | 11 | 11 | 11 | 11 | 12 | 56 |
| Assumptions |  |  |  |  |  |  |
| KDG +/- | 1 year |  |  |  |  |  |
| JES | K | 1 | 2 | 3 | 4 | K-5 Total |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 |
| Increase | 46 | 17 | 21 | 24 | 31 | 139 |
| 2017-18 | 152 | 150 | 131 | 125 | 139 | 697 |
| Increase | 10 | 31 | 15 | -6 | 29 | 79 |
| 2018-19 | 163 | 160 | 165 | 141 | 132 | 761 |
| Increase | 11 | 10 | 34 | 16 | -7 | 64 |
| 2019-20 | 175 | 172 | 176 | 178 | 149 | 850 |
| Increase | 12 | 12 | 11 | 37 | 17 | 89 |
| 2020-21 | 188 | 185 | 189 | 189 | 188 | 939 |
| Increase | 13 | 13 | 13 | 11 | 39 | 89 |
| 2021-22 | 202 | 198 | 204 | 203 | 200 | 1007 |
| Increase | 14 | 13 | 15 | 14 | 12 | 68 |


| EL Totals | K | 1 | 2 | 3 | 4 | K-5 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |  |
| 2017-18 | 503 | 494 | 526 | 514 | 533 | 2570 | 3.80\% |
| Increase | 30 | 11 | 44 | 4 | 5 | 94 |  |
| 2018-19 | 534 | 525 | 538 | 560 | 537 | 2694 | 4.82\% |
| Increase | 31 | 31 | 12 | 46 | 4 | 124 |  |
| 2019-20 | 567 | 557 | 573 | 573 | 585 | 2855 | 5.98\% |
| Increase | 33 | 32 | 35 | 13 | 48 | 161 |  |
| 2020-21 | 602 | 592 | 607 | 610 | 600 | 3011 | 5.46\% |
| Increase | 35 | 35 | 34 | 37 | 15 | 156 |  |
| 2021-22 | 640 | 629 | 646 | 647 | 638 | 3200 | 6.28\% |
| Increase | 38 | 37 | 39 | 37 | 38 | 189 |  |
| Assumptions |  |  |  |  |  |  |  |
| KDG +/- | 1 year |  |  |  |  |  |  |
| MES | K | 1 | 2 | 3 | K-5 Total |  |  |
| 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |  |
| Increase | -35 | -3 | -2 | 0 | 21 | -19 |  |
| 2017-18 | 88 | 86 | 136 | 124 | 131 | 565 |  |
| Increase | 5 | -40 | 19 | -2 | -1 | -19 |  |
| 2018-19 | 93 | 91 | 93 | 144 | 129 | 550 |  |
| Increase | 5 | 5 | -43 | 20 | -2 | -15 |  |
| 2019-20 | 98 | 96 | 99 | 98 | 149 | 540 |  |
| Increase | 5 | 5 | 6 | -46 | 20 | -10 |  |
| 2020-21 | 103 | 102 | 104 | 105 | 102 | 516 |  |
| Increase | 5 | 6 | 5 | 7 | -47 | -24 |  |
| 2021-22 | 109 | 107 | 110 | 110 | 109 | 545 |  |
| Increase | 6 | 5 | 6 | 5 | 7 | 29 |  |
| Assumptions |  | 1 | 2 | 3 | 4 | K-5 Total |  |
| KDG +/- | 1 year |  |  |  |  |  |  |
| WT | K |  |  |  |  |  |  |
| 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |  |
| Increase | 20 | 15 | 2 | 10 | 17 | 64 |  |
| 2017-18 | 116 | 114 | 127 | 111 | 122 | 590 |  |
| Increase | 6 | -3 | 22 | -7 | 6 | 24 |  |
| 2018-19 | 122 | 120 | 123 | 134 | 115 | 614 |  |
| Increase | 6 | 6 | -4 | 23 | -7 | 24 |  |
| 2019-20 | 128 | 126 | 130 | 130 | 139 | 653 |  |
| Increase | 6 | 6 | 7 | -4 | 24 | 39 |  |
| 2020-21 | 135 | 132 | 136 | 137 | 135 | 675 |  |
| Increase | 7 | 6 | 6 | 7 | -4 | 22 |  |
| 2021-22 | 142 | 140 | 143 | 144 | 142 | 711 |  |
| Increase | 7 | 8 | 7 | 7 | 7 | 36 |  |


|  | 4 Year Rate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MIS/MJHS | 5 | 6 | MIS Tot | 7 | 8 | MJH Tot |
| 2016-17 | 491 | 456 | 947 | 497 | 486 | 983 |
| Increase | 491 | 456 | 946 | 496 | 485 | 2873.89285 |
| 2017-18 | 548 | 512 | 1060 | 464 | 509 | 973 |
| Increase | 57 | 56 | 113 | -33 | 23 | -10 |
| 2018-19 | 553 | 571 | 1124 | 521 | 475 | 996 |
| Increase | 5 | 59 | 64 | 57 | -34 | 23 |
| 2019-20 | 557 | 576 | 1133 | 581 | 533 | 1114 |
| Increase | 4 | 5 | 9 | 60 | 58 | 118 |
| 2020-21 | 607 | 581 | 1188 | 586 | 595 | 1181 |
| Increase | 50 | 5 | 55 | 5 | 62 | 67 |
| 2021-22 | 622 | 633 | 1255 | 591 | 600 | 1191 |
| Increase | 15 | 52 | 67 | 5 | 5 | 10 |




## Projected 5-8 Enrollment

Minooka CCSD 201


| AUX | K | 1 | 2 | 3 | 4 | K-4 Total | \|MES | K | 1 | 2 | 3 | 4 | K-4 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2009-10 | 125 | 174 | 149 | 170 | 148 | 766 | 2009-10 | 124 | 79 | 96 | 91 | 98 | 488 |
| 2010-11 | 103 | 148 | 176 | 142 | 173 | 742 | 2010-11 | 102 | 99 | 79 | 96 | 89 | 465 |
|  |  | 18.40\% | 1.15\% | -4.70\% | 1.76\% |  |  |  | -20.16\% | 0.00\% | 0.00\% | -2.20\% |  |
| 2011-12 | 113 | 113 | 118 | 140 | 126 | 610 | 2011-12 | 112 | 111 | 118 | 118 | 107 | 566 |
|  | 9.71\% | 9.71\% | -20.27\% | -20.45\% | -11.27\% |  |  | 9.80\% | 8.82\% | 19.19\% | 49.37\% | 11.46\% |  |
| 2012-13 | 138 | 104 | 117 | 117 | 140 | 616 | 2012-13 | 138 | 132 | 115 | 117 | 125 | 627 |
|  | 22.12\% | -7.96\% | 3.54\% | -0.85\% | 0.00\% |  |  | 23.21\% | 17.86\% | 3.60\% | -0.85\% | 5.93\% |  |
| 2013-14 | 118 | 156 | 118 | 123 | 123 | 638 | 2013-14 | 118 | 122 | 129 | 117 | 117 | 603 |
|  | -14.49\% | 13.04\% | 13.46\% | 5.13\% | 5.13\% |  |  | -14.49\% | -11.59\% | -2.27\% | 1.74\% | 0.00\% |  |
| 2014-15 | 118 | 117 | 166 | 127 | 128 | 656 | 2014-15 | 118 | 129 | 119 | 126 | 111 | 603 |
|  |  | -0.85\% | 6.41\% | 7.63\% | 4.07\% |  |  | 0.00\% | 9.32\% | -2.46\% | -2.33\% | -5.13\% |  |
| 2015-16 | 118 | 131 | 134 | 166 | 127 | 676 | 2015-16 | 116 | 110 | 125 | 126 | 137 | 614 |
|  |  | 11.02\% | 14.53\% | 0.00\% | 0.00\% |  |  | -1.69\% | -6.78\% | -3.10\% | 5.88\% | 8.73\% |  |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 | 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |
| 1 year | 0.00\% | 11.02\% | 14.53\% | 0.00\% | 0.00\% |  | Cohort | -1.69\% | -6.78\% | -3.10\% | 5.88\% | 8.73\% |  |
| 2 Year Rate | 0.00\% | 5.08\% | 10.47\% | 3.81\% | 2.03\% |  |  | -0.85\% | 1.27\% | -2.78\% | 1.78\% | 1.80\% |  |
| 3 Year Rate | -7.25\% | 7.74\% | 11.47\% | 4.25\% | 3.06\% |  |  | -5.40\% | -3.02\% | -2.61\% | 1.77\% | 1.20\% |  |
| 4 Year Rate | 2.54\% | 3.81\% | 9.49\% | 2.98\% | 2.30\% |  |  | 1.76\% | 2.20\% | -1.06\% | 1.11\% | 2.38\% |  |
| JES | K | 1 | 2 | 3 | 4 | K-4 Total | WTS | K | 1 | 2 | 3 | 4 | K-4 Total |
| 2009-10 | 97 | 86 | 86 | 88 | 75 | 432 | 2009-10 | 80 | 95 | 120 | 91 | 108 | 494 |
| 2010-11 | 87 | 105 | 77 | 80 | 85 | 434 | 2010-11 | 79 | 99 | 104 | 120 | 88 | 490 |
|  |  | 8.25\% | -10.47\% | -6.98\% | -3.41\% |  |  |  | 23.75\% | 9.47\% | 0.00\% | -3.30\% |  |
| 2011-12 | 94 | 88 | 106 | 80 | 81 | 449 | 2011-12 | 92 | 84 | 99 | 103 | 121 | 499 |
|  | 8.05\% | 1.15\% | 0.95\% | 3.90\% | 1.25\% |  |  | 16.46\% | 6.33\% | 0.00\% | -0.96\% | 0.83\% |  |
| 2012-13 | 96 | 102 | 85 | 111 | 70 | 464 | 2012-13 | 80 | 102 | 89 | 101 | 104 | 476 |
|  | 2.13\% | 8.51\% | -3.41\% | 4.72\% | -12.50\% |  |  | -13.04\% | 10.87\% | 5.95\% | 2.02\% | 0.97\% |  |
| 2013-14 | 92 | 90 | 101 | 86 | 113 | 482 | 2013-14 | 80 | 99 | 104 | 91 | 101 | 475 |
|  | -4.17\% | -6.25\% | -0.98\% | 1.18\% | 1.80\% |  |  | 0.00\% | 23.75\% | 1.96\% | 2.25\% | 0.00\% |  |
| 2014-15 | 96 | 102 | 95 | 107 | 79 | 479 | 2014-15 | 90 | 102 | 103 | 108 | 99 | 502 |
|  | 4.35\% | 10.87\% | 5.56\% | 5.94\% | -8.14\% |  |  | 12.50\% | 27.50\% | 4.04\% | 3.85\% | 8.79\% |  |
| 2015-16 | 104 | 105 | 110 | 104 | 110 | 533 | 2015-16 | 113 | 101 | 115 | 112 | 107 | 548 |
|  | 8.33\% | 9.38\% | 7.84\% | 9.47\% | 2.80\% |  |  | 25.56\% | 12.22\% | 12.75\% | 8.74\% | -0.93\% |  |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 | 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |
|  | 8.33\% | 9.38\% | 7.84\% | 9.47\% | 2.80\% |  |  | 25.56\% | 12.22\% | 12.75\% | 8.74\% | -0.93\% |  |
|  | 6.34\% | 10.12\% | 6.70\% | 7.71\% | -2.67\% |  |  | 19.03\% | 19.86\% | 8.39\% | 6.29\% | 3.93\% |  |
|  | 2.84\% | 4.66\% | 4.14\% | 5.53\% | -1.18\% |  |  | 12.69\% | 21.16\% | 6.25\% | 4.94\% | 2.62\% |  |
|  | 2.66\% | 5.63\% | 2.25\% | 5.33\% | -4.01\% |  |  | 6.25\% | 18.59\% | 6.17\% | 4.21\% | 2.21\% |  |
| EL Totals | K | 1 | 2 | 3 | 4 | K-4 Total |  | MIN201 | K-4 | 5-6 | 7-8 | Total |  |
| 2009-10 | 426 | 434 | 451 | 440 | 429 | 2180 |  | 2009-10 | 2180 | 841 | 788 | 3809 |  |
| 2010-11 | 371 | 451 | 436 | 438 | 435 | 2131 |  | 2010-11 | 2131 | 852 | 806 | 3789 |  |
|  |  | 1.05869 | 1.00461 | 0.97118 | 0.98864 |  |  |  |  |  | 0 |  |  |
| 2011-12 | 411 | 396 | 441 | 441 | 435 | 2124 |  | 2011-12 | 2124 | 844 | 835 | 3803 |  |
|  |  | 1.06739 | 0.97783 | 1.01147 | 0.99315 |  |  |  |  |  | 0 |  |  |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 2183 |  | 2012-13 | 2183 | 889 | 867 | 3939 |  |


| 2013-14 | 408 | 1.07056 | 1.02525 | 1.01134 | 0.99546 | 2198 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 467 | 452 | 417 | 454 |  |
|  |  | 1.03319 | 1.02727 | 1.02709 | 1.01794 |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 2240 |
|  |  | 1.10294 | 1.03426 | 1.03540 | 1.00000 |  |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 2371 |
|  |  | 1.05924 | 1.07556 | 1.05176 | 1.02778 |  |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |
| Cohort | 422 | 1.10294 | 1.03426 | 1.03540 | 1.00000 |  |
|  | 415 | 1.06806 | 1.03077 | 1.03125 | 1.00897 |  |
|  | 427 | 1.06890 | 1.02893 | 1.02461 | 1.00447 |  |
|  | 423 | 1.06852 | 1.01615 | 1.02132 | 1.00164 |  |
| Int/MJHS2009-10$2010-11$ | 5 | 6 | MIS Tot | 7 | 8 | MJH Tot |
|  | 433 | 408 | 841 | 400 | 388 | 788 |
|  | 433 | 419 | 852 | 412 | 394 | 806 |
|  | 1.0093 | 0.9677 | 844 | 1.0098 | 0.9850 |  |
| 2011-12 | 420 | 424 |  | 428 | 407 | 835 |
|  | 0.9655 | 0.9792 |  | 1.0215 | 0.9879 |  |
| 2012-13 | 453 | 436 | 889 | 434 | 433 | 867 |
|  | 1.0414 | 1.0381 |  | 1.0236 | 1.0117 |  |
| 2013-14 | 459 | 453 | 912 | 446 | 435 | 881 |
|  | 1.0456 | 1.0000 |  | 1.0229 | 1.0023 |  |
| 2014-15 | 469 | 479 | 948 | 462 | 456 | 918 |
|  | 1.0330 | 1.0436 |  | 1.0199 | 1.0224 |  |
| 2015-16 | 438 | 489 | 927 | 481 | 483 | 964 |
|  | 1.0504 | 1.0426 |  | 1.0042 | 1.0455 |  |
| 2016-17 | 491 | 456 | 947 | 497 | 486 | 983 |
| Cohort | 1.0208 | 1.0411 |  | 1.0164 | 1.0104 |  |
|  | 1.0356 | 1.0419 |  | 1.0103 | 1.0279 |  |
|  | 1.0347 | 1.0424 |  | 1.0135 | 1.0261 |  |
|  | 1.0364 | 1.0414 |  | 1.0160 | 1.0225 |  |


|  |  | 0 | 0 |  |
| :---: | :---: | ---: | ---: | ---: |
| $2013-14$ | 2198 | 912 | 881 | 3991 |
|  |  | 0 | 0 |  |
| $2014-15$ | 2240 | 948 | 918 | 4106 |
|  |  | 0 | 0 |  |
| $2015-16$ | 2371 | 927 | 964 | 4262 |
|  |  | 0 | 0 |  |
| $2016-17$ | 2476 | 947 | 983 | 4406 |

Elementary School Projections

| EL Totals | K | 1 | 2 | 3 | 4 | K-5 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 2183 |
|  |  | 1.05342 | 0.99558 | 0.99567 | 1.00210 |  |
| 2013-14 | 408 | 467 | 452 | 417 | 454 | 2198 |
|  | 0.90265 | 1.18095 | 1.02637 | 0.99778 | 1.01739 |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 2240 |
|  | 1.03431 | 1.12195 | 0.96976 | 1.03953 | 1.02000 |  |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 2371 |
|  | 1.06872 | 0.99113 | 1.07556 | 1.05176 | 1.02778 |  |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |
| 1 year | 1.04878 | 1.07095 | 1.07830 | 1.05372 | 1.03937 |  |
| 2 Year Rate | 1.05875 | 1.03104 | 1.07693 | 1.05274 | 1.03357 |  |
| 3 Year Rate | 1.05060 | 1.06135 | 1.04120 | 1.04833 | 1.02905 |  |
| 4 Year Rate | 1.01362 | 1.09125 | 1.03750 | 1.03570 | 1.02613 |  |
|  |  | Retention Ra | te Used | 2 Year R |  |  |
| Assumptions |  |  |  |  |  |  |
| KDG Rate | 1 year |  |  |  |  |  |
| AUX | K | 1 | 2 | 3 | 4 | K-5 Total |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 |
| Increase | 20 | 4 | -22 | 8 | 42 | 52 |
| 2017-18 | 145 | 143 | 131 | 152 | 140 | 711 |
| Increase | 7 | 22 | -13 | 17 | -30 | 3 |
| 2018-19 | 153 | 150 | 155 | 138 | 158 | 754 |
| Increase | 8 | 7 | 24 | -14 | 18 | 43 |
| 2019-20 | 161 | 158 | 162 | 164 | 143 | 788 |
| Increase | 8 | 8 | 7 | 26 | -15 | 34 |
| 2020-21 | 169 | 166 | 171 | 171 | 170 | 847 |
| Increase | 8 | 8 | 9 | 7 | 27 | 59 |
| 2021-22 | 178 | 175 | 179 | 181 | 177 | 890 |
| Increase | 9 | 9 | 8 | 10 | 7 | 43 |
| Assumptions | 1 year |  |  |  |  |  |
| JES | K | 1 | 2 | 3 | 4 | K-5 Total |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 |
| Increase | 46 | 17 | 21 | 24 | 31 | 139 |
| 2017-18 | 149 | 147 | 129 | 123 | 136 | 684 |
| Increase | 7 | 28 | 13 | -8 | 26 | 66 |
| 2018-19 | 157 | 154 | 159 | 136 | 128 | 734 |
| Increase | 8 | 7 | 30 | 13 | -8 | 50 |
| 2019-20 | 165 | 162 | 166 | 168 | 141 | 802 |
| Increase | 8 | 8 | 7 | 32 | 13 | 68 |
| 2020-21 | 174 | 171 | 175 | 175 | 174 | 869 |
| Increase | 9 | 9 | 9 | 7 | 33 | 67 |
| 2021-22 | 183 | 180 | 185 | 185 | 181 | 914 |
| Increase | 9 | 9 | 10 | 10 | 7 | 45 |


| EL Totals | K | 1 | 2 | 3 | 4 | K-5 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |  |
| 2017-18 | 498 | 490 | 523 | 510 | 529 | 2550 | 2.99\% |
| Increase | 25 | 7 | 41 | 0 | 1 | 74 |  |
| 2018-19 | 525 | 515 | 530 | 552 | 530 | 2652 | 4.00\% |
| Increase | 27 | 25 | 7 | 42 | 1 | 102 |  |
| 2019-20 | 552 | 542 | 557 | 560 | 572 | 2783 | 4.94\% |
| Increase | 27 | 27 | 27 | 8 | 42 | 131 |  |
| 2020-21 | 581 | 571 | 586 | 588 | 581 | 2907 | 4.46\% |
| Increase | 29 | 29 | 29 | 28 | 9 | 124 |  |
| 2021-22 | 612 | 602 | 617 | 620 | 609 | 3060 | 5.26\% |
| Increase | 31 | 31 | 31 | 32 | 28 | 153 |  |
| Assumptions |  |  |  |  | 4 K-5 Total |  |  |
| KDG +/- | 1 year |  |  |  |  |  |  |
| MES | K | 1 | 2 | 3 |  |  |  |
| 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |  |
| Increase | -35 | -3 | -2 | 0 | 21 | -19 |  |
| 2017-18 | 88 | 86 | 136 | 124 | 131 | 565 |  |
| Increase | 5 | -40 | 19 | -2 | -1 | -19 |  |
| 2018-19 | 93 | 91 | 93 | 144 | 129 | 550 |  |
| Increase | 5 | 5 | -43 | 20 | -2 | -15 |  |
| 2019-20 | 98 | 96 | 99 | 98 | 149 | 540 |  |
| Increase | 5 | 5 | 6 | -46 | 20 | -10 |  |
| 2020-21 | 103 | 102 | 104 | 105 | 102 | 516 |  |
| Increase | 5 | 6 | 5 | 7 | -47 | -24 |  |
| 2021-22 | 109 | 107 | 110 | 110 | 109 | 545 |  |
| Increase | 6 | 5 | 6 | 5 | 7 | 29 |  |
| Assumptions |  | 1 |  |  |  | K-5 Total |  |
| KDG +/- | 1 year |  |  |  |  |  |  |
| WT | K |  | 2 | 3 | 4 |  |  |
| 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |  |
| Increase | 20 | 15 | 2 | 10 | 17 | 64 |  |
| 2017-18 | 116 | 114 | 127 | 111 | 122 | 590 |  |
| Increase | 6 | -3 | 22 | -7 | 6 | 24 |  |
| 2018-19 | 122 | 120 | 123 | 134 | 115 | 614 |  |
| Increase | 6 | 6 | -4 | 23 | -7 | 24 |  |
| 2019-20 | 128 | 126 | 130 | 130 | 139 | 653 |  |
| Increase | 6 | , | 7 | -4 | 24 | 39 |  |
| 2020-21 | 135 | 132 | 136 | 137 | 135 | 675 |  |
| Increase | 7 | , | 6 | 7 | -4 | 22 |  |
| 2021-22 | 142 | 140 | 143 | 144 | 142 | 711 |  |
| Increase | 7 | 8 | 7 | 7 | 7 | 36 |  |


| MIS/MJHS | 4 Year Rate | 6 | MIS Tot | 7 | 8 | MJH Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5 |  |  |  |  |  |
| 2016-17 | 491 | 456 | 947 | 497 | 486 | 983 |
| Increase | 491 | 456 | 946 | 496 | 485 | 2873.89285 |
| 2017-18 | 548 | 512 | 1060 | 464 | 509 | 973 |
| Increase | 57 | 56 | 113 | -33 | 23 | -10 |
| 2018-19 | 549 | 571 | 1120 | 521 | 475 | 996 |
| Increase | 1 | 59 | 60 | 57 | -34 | 23 |
| 2019-20 | 550 | 572 | 1122 | 581 | 533 | 1114 |
| Increase | 1 | 1 | 2 | 60 | 58 | 118 |
| 2020-21 | 593 | 573 | 1166 | 582 | 595 | 1177 |
| Increase | 43 | 1 | 44 | 1 | 62 | 63 |
| 2021-22 | 603 | 618 | 1221 | 583 | 596 | 1179 |
| Increase | 10 | 45 | 55 | 1 | 1 | 2 |

# Minooka CCSD 201 Facilities Advisory Committee 

Recommendation to the Board of Education
November 20, 2017

## Appendix E - Enrollment Projections - updated October 16, 2017

Administration updated the enrollment projections at the start of the 2017-18 school year to reflect actual data, then refined them further on October 15th for the official Fall Housing Report that is sent to the Illinois State Board of Education and acts as our official 2017-18 enrollment.

Most grade levels reflected enrollments within a general range of the 2016-17 projections. Our 2017-18 kindergarten enrollments dropped from the previous years figures, and in fact are below the 2015-16 kindergarten cohort as well. This was quite unexpected, as the model naturally assumed some level of growth in our kindergarten enrollments like we had experienced during the previous four years. Our second grade cohort was also lower than projections by 24 students. Looking closely at the numbers, our first to second grade history had seen a few years of larger than normal growth, going from 450 to 484 between 2014-15 into 2015-16 and from 447 to 482 between 2015-16 and 2016-17. These large jumps led to a calculated projection of 523 students, a jump of 40 from the 2016-17 first grade cohort of 483. The cohort still grew, but by a more modest 16 students for a cohort of 499.

These two anomalies led our elementary enrollments to be 79 students less than projected, a statistic that lowered all subsequent years as the smaller kindergarten cohort matriculates through the grade level projections. It also affects the new kindergarten cohorts projected for future years. Because of this, the projected need for new classroom space at the elementary levels was significantly reduced.

In discussion, the Committee expressed concern that this could be a one year "blip" in the kindergarten enrollments, as the number of new homes and young families moving into the area could quickly grow this number faster than the projections calculate. It was this caution that led the Committee to include the authority for a new elementary school and/or additions to existing elementary schools into the Recommendation, giving the Board the authority to respond quickly to changing conditions without having to go back to the voters for another referendum.

| Historical Enrollments |  | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | Total K5 | $\begin{gathered} \text { Total } \\ 5-6 \end{gathered}$ | $\begin{gathered} \text { Total } \\ 7-8 \end{gathered}$ | Total | Pre-KDG |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2009-10 | 426 | 434 | 451 | 440 | 429 | 433 | 408 | 400 | 388 | 2180 | 841 | 788 | 3809 |  |  |
| 2010-11 | 371 | 451 | 436 | 438 | 435 | 433 | 419 | 412 | 394 | 2131 | 852 | 806 | 3789 |  |  |
| 2011-12 | 411 | 396 | 441 | 441 | 435 | 420 | 424 | 428 | 407 | 2124 | 844 | 835 | 3803 |  |  |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 453 | 436 | 434 | 433 | 2183 | 889 | 867 | 3939 |  |  |
| 2013-14 | 408 | 467 | 452 | 417 | 454 | 459 | 453 | 446 | 435 | 2198 | 912 | 881 | 3991 |  |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 469 | 479 | 462 | 456 | 2240 | 948 | 918 | 4106 |  | Total |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 438 | 489 | 481 | 483 | 2371 | 927 | 964 | 4262 | 211 | Students |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 491 | 456 | 497 | 486 | 2476 | 947 | 983 | 4406 | 211 | 4617 |
| Projection | 465 | 482 | 474 | 507 | 517 | 502 | 457 | 495 | 498 | 2445 | 959 | 993 | 4397 |  |  |
| +/- | 8 | 1 | 8 | 3 | 11 | -11 | -1 | 2 | -12 | 31 | -12 | -10 | $\underline{9}$ | Total dif from | projection |
| Retention | Rate: E | Elementa |  | 2 Year | Rate |  | /MJHS | 4 Yea | Rate |  |  |  |  |  |  |
| Kindergarte | Rate | 1 y |  |  |  |  |  |  |  | Total K- | Total | Total |  | Pre-KDG | Total |
| 2017-18 | 513 | 503 | 535 | 523 | 543 | 559 | 522 | 473 | 519 | 2617 |  |  | $4690$ | $211$ | 4901 |
| 2018-19 | 556 | 546 | 560 | 580 | 557 | 575 | 594 | 541 | 494 | 2799 | 1169 | 1035 | 5003 | 211 | 5214 |
| 2019-20 | 602 | 592 | 608 | 608 | 616 | 589 | 611 | 616 | 565 | 3026 | 1200 | 1181 | 5407 | 211 | 5618 |
| 2020-21 | 652 | 641 | 659 | 662 | 649 | 652 | 626 | 634 | 643 | 3263 | 1278 | 1277 | 5818 | 211 | 6029 |
| 2021-22 | 707 | 694 | 713 | 716 | 707 | 687 | 693 | 649 | 662 | 3537 | 1380 | 1311 | 6228 | 211 | 6439 |
| EL Building Projections |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AUX | KDG | 1st | 2nd | 3rd | 4th | Total |  |  | MES | KDG | 1st | 2nd | 3rd | 4th | Total |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 |  |  | 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |
| 2017-18 | 150 | 147 | 135 | 157 | 144 | 733 |  |  | 2017-18 | 88 | 86 | 136 | 124 | 131 | 565 |
| 2018-19 | 163 | 160 | 164 | 147 | 168 | 802 |  |  | 2018-19 | 93 | 91 | 93 | 144 | 129 | 550 |
| 2019-20 | 177 | 174 | 178 | 178 | 157 | 864 |  |  | 2019-20 | 98 | 96 | 99 | 98 | 149 | 540 |
| 2020-21 | 192 | 188 | 194 | 194 | 190 | 958 |  |  | 2020-21 | 103 | 102 | 104 | 105 | 102 | 516 |
| 2021-22 | 208 | 204 | 209 | 211 | 207 | 1039 |  |  | 2021-22 | 109 | 107 | 110 | 110 | 109 | 545 |
| JES | KDG | 1st | 2nd | 3rd | 4th | Total |  |  | WT | KDG | 1st | 2nd | 3rd | 4th | Total |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 |  |  | 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |
| 2017-18 | 157 | 154 | 135 | 129 | 143 | 718 |  |  | 2017-18 | 118 | 116 | 129 | 113 | 125 | 601 |
| 2018-19 | 173 | 170 | 175 | 150 | 140 | 808 |  |  | 2018-19 | 127 | 125 | 128 | 139 | 120 | 639 |
| 2019-20 | 191 | 188 | 193 | 194 | 163 | 929 |  |  | 2019-20 | 136 | 134 | 138 | 138 | 147 | 693 |
| 2020-21 | 211 | 207 | 213 | 214 | 211 | 1056 |  |  | 2020-21 | 146 | 144 | 148 | 149 | 146 | 733 |
| 2021-22 | 233 | 229 | 235 | 236 | 233 | 1166 |  |  | 2021-22 | 157 | 154 | 159 | 159 | 158 | 787 |


|  | AUX | JES | MES | WTES | MIS | MJHS |
| :--- | :--- | :--- | ---: | ---: | ---: | ---: |
| Add'I Growth Rate | $3.0 \%$ | $5.0 \%$ | $0.0 \%$ | $2.0 \%$ | $2.0 \%$ | $2.0 \%$ |

7000 Mon Minooka CCSD 201 Enrollment Projections, K-8


## Projected 5-8 Enrollment

Minooka CCSD 201
1500


| AUX | K | 1 | 2 | 3 | 4 | K-4 Total | \|MES | K | 1 | 2 | 3 | 4 | K-4 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2009-10 | 125 | 174 | 149 | 170 | 148 | 766 | 2009-10 | 124 | 79 | 96 | 91 | 98 | 488 |
| 2010-11 | 103 | 148 | 176 | 142 | 173 | 742 | 2010-11 | 102 | 99 | 79 | 96 | 89 | 465 |
|  |  | 18.40\% | 1.15\% | -4.70\% | 1.76\% |  |  |  | -20.16\% | 0.00\% | 0.00\% | -2.20\% |  |
| 2011-12 | 113 | 113 | 118 | 140 | 126 | 610 | 2011-12 | 112 | 111 | 118 | 118 | 107 | 566 |
|  | 9.71\% | 9.71\% | -20.27\% | -20.45\% | -11.27\% |  |  | 9.80\% | 8.82\% | 19.19\% | 49.37\% | 11.46\% |  |
| 2012-13 | 138 | 104 | 117 | 117 | 140 | 616 | 2012-13 | 138 | 132 | 115 | 117 | 125 | 627 |
|  | 22.12\% | -7.96\% | 3.54\% | -0.85\% | 0.00\% |  |  | 23.21\% | 17.86\% | 3.60\% | -0.85\% | 5.93\% |  |
| 2013-14 | 118 | 156 | 118 | 123 | 123 | 638 | 2013-14 | 118 | 122 | 129 | 117 | 117 | 603 |
|  | -14.49\% | 13.04\% | 13.46\% | 5.13\% | 5.13\% |  |  | -14.49\% | -11.59\% | -2.27\% | 1.74\% | 0.00\% |  |
| 2014-15 | 118 | 117 | 166 | 127 | 128 | 656 | 2014-15 | 118 | 129 | 119 | 126 | 111 | 603 |
|  |  | -0.85\% | 6.41\% | 7.63\% | 4.07\% |  |  | 0.00\% | 9.32\% | -2.46\% | -2.33\% | -5.13\% |  |
| 2015-16 | 118 | 131 | 134 | 166 | 127 | 676 | 2015-16 | 116 | 110 | 125 | 126 | 137 | 614 |
|  |  | 11.02\% | 14.53\% | 0.00\% | 0.00\% |  |  | -1.69\% | -6.78\% | -3.10\% | 5.88\% | 8.73\% |  |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 | 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |
| 1 year | 0.00\% | 11.02\% | 14.53\% | 0.00\% | 0.00\% |  | Cohort | -1.69\% | -6.78\% | -3.10\% | 5.88\% | 8.73\% |  |
| 2 Year Rate | 0.00\% | 5.08\% | 10.47\% | 3.81\% | 2.03\% |  |  | -0.85\% | 1.27\% | -2.78\% | 1.78\% | 1.80\% |  |
| 3 Year Rate | -7.25\% | 7.74\% | 11.47\% | 4.25\% | 3.06\% |  |  | -5.40\% | -3.02\% | -2.61\% | 1.77\% | 1.20\% |  |
| 4 Year Rate | 2.54\% | 3.81\% | 9.49\% | 2.98\% | 2.30\% |  |  | 1.76\% | 2.20\% | -1.06\% | 1.11\% | 2.38\% |  |
| JES | K | 1 | 2 | 3 | 4 | K-4 Total | WTS | K | 1 | 2 | 3 | 4 | K-4 Total |
| 2009-10 | 97 | 86 | 86 | 88 | 75 | 432 | 2009-10 | 80 | 95 | 120 | 91 | 108 | 494 |
| 2010-11 | 87 | 105 | 77 | 80 | 85 | 434 | 2010-11 | 79 | 99 | 104 | 120 | 88 | 490 |
|  |  | 8.25\% | -10.47\% | -6.98\% | -3.41\% |  |  |  | 23.75\% | 9.47\% | 0.00\% | -3.30\% |  |
| 2011-12 | 94 | 88 | 106 | 80 | 81 | 449 | 2011-12 | 92 | 84 | 99 | 103 | 121 | 499 |
|  | 8.05\% | 1.15\% | 0.95\% | 3.90\% | 1.25\% |  |  | 16.46\% | 6.33\% | 0.00\% | -0.96\% | 0.83\% |  |
| 2012-13 | 96 | 102 | 85 | 111 | 70 | 464 | 2012-13 | 80 | 102 | 89 | 101 | 104 | 476 |
|  | 2.13\% | 8.51\% | -3.41\% | 4.72\% | -12.50\% |  |  | -13.04\% | 10.87\% | 5.95\% | 2.02\% | 0.97\% |  |
| 2013-14 | 92 | 90 | 101 | 86 | 113 | 482 | 2013-14 | 80 | 99 | 104 | 91 | 101 | 475 |
|  | -4.17\% | -6.25\% | -0.98\% | 1.18\% | 1.80\% |  |  | 0.00\% | 23.75\% | 1.96\% | 2.25\% | 0.00\% |  |
| 2014-15 | 96 | 102 | 95 | 107 | 79 | 479 | 2014-15 | 90 | 102 | 103 | 108 | 99 | 502 |
|  | 4.35\% | 10.87\% | 5.56\% | 5.94\% | -8.14\% |  |  | 12.50\% | 27.50\% | 4.04\% | 3.85\% | 8.79\% |  |
| 2015-16 | 104 | 105 | 110 | 104 | 110 | 533 | 2015-16 | 113 | 101 | 115 | 112 | 107 | 548 |
|  | 8.33\% | 9.38\% | 7.84\% | 9.47\% | 2.80\% |  |  | 25.56\% | 12.22\% | 12.75\% | 8.74\% | -0.93\% |  |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 | 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |
|  | 8.33\% | 9.38\% | 7.84\% | 9.47\% | 2.80\% |  |  | 25.56\% | 12.22\% | 12.75\% | 8.74\% | -0.93\% |  |
|  | 6.34\% | 10.12\% | 6.70\% | 7.71\% | -2.67\% |  |  | 19.03\% | 19.86\% | 8.39\% | 6.29\% | 3.93\% |  |
|  | 2.84\% | 4.66\% | 4.14\% | 5.53\% | -1.18\% |  |  | 12.69\% | 21.16\% | 6.25\% | 4.94\% | 2.62\% |  |
|  | 2.66\% | 5.63\% | 2.25\% | 5.33\% | -4.01\% |  |  | 6.25\% | 18.59\% | 6.17\% | 4.21\% | 2.21\% |  |
| EL Totals | K | 1 | 2 | 3 | 4 | K-4 Total |  | MIN201 | K-4 | 5-6 | 7-8 | Total |  |
| 2009-10 | 426 | 434 | 451 | 440 | 429 | 2180 |  | 2009-10 | 2180 | 841 | 788 | 3809 |  |
| 2010-11 | 371 | 451 | 436 | 438 | 435 | 2131 |  | 2010-11 | 2131 | 852 | 806 | 3789 |  |
|  |  | 1.05869 | 1.00461 | 0.97118 | 0.98864 |  |  |  |  |  | 0 |  |  |
| 2011-12 | 411 | 396 | 441 | 441 | 435 | 2124 |  | 2011-12 | 2124 | 844 | 835 | 3803 |  |
|  |  | 1.06739 | 0.97783 | 1.01147 | 0.99315 |  |  |  |  |  | 0 |  |  |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 2183 |  | 2012-13 | 2183 | 889 | 867 | 3939 |  |


| 2013-14 | 408 | 1.07056 | 1.02525 | 1.01134 | 0.99546 | 2198 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 467 | 452 | 417 | 454 |  |
|  |  | 1.03319 | 1.02727 | 1.02709 | 1.01794 |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 2240 |
|  |  | 1.10294 | 1.03426 | 1.03540 | 1.00000 |  |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 2371 |
|  |  | 1.05924 | 1.07556 | 1.05176 | 1.02778 |  |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |
| Cohort | 422 | 1.10294 | 1.03426 | 1.03540 | 1.00000 |  |
|  | 415 | 1.06806 | 1.03077 | 1.03125 | 1.00897 |  |
|  | 427 | 1.06890 | 1.02893 | 1.02461 | 1.00447 |  |
|  | 423 | 1.06852 | 1.01615 | 1.02132 | 1.00164 |  |
| Int/MJHS2009-10$2010-11$ | 5 | 6 | MIS Tot | 7 | 8 | MJH Tot |
|  | 433 | 408 | 841 | 400 | 388 | 788 |
|  | 433 | 419 | 852 | 412 | 394 | 806 |
|  | 1.0093 | 0.9677 | 844 | 1.0098 | 0.9850 |  |
| 2011-12 | 420 | 424 |  | 428 | 407 | 835 |
|  | 0.9655 | 0.9792 |  | 1.0215 | 0.9879 |  |
| 2012-13 | 453 | 436 | 889 | 434 | 433 | 867 |
|  | 1.0414 | 1.0381 |  | 1.0236 | 1.0117 |  |
| 2013-14 | 459 | 453 | 912 | 446 | 435 | 881 |
|  | 1.0456 | 1.0000 |  | 1.0229 | 1.0023 |  |
| 2014-15 | 469 | 479 | 948 | 462 | 456 | 918 |
|  | 1.0330 | 1.0436 |  | 1.0199 | 1.0224 |  |
| 2015-16 | 438 | 489 | 927 | 481 | 483 | 964 |
|  | 1.0504 | 1.0426 |  | 1.0042 | 1.0455 |  |
| 2016-17 | 491 | 456 | 947 | 497 | 486 | 983 |
| Cohort | 1.0208 | 1.0411 |  | 1.0164 | 1.0104 |  |
|  | 1.0356 | 1.0419 |  | 1.0103 | 1.0279 |  |
|  | 1.0347 | 1.0424 |  | 1.0135 | 1.0261 |  |
|  | 1.0364 | 1.0414 |  | 1.0160 | 1.0225 |  |


|  |  | 0 | 0 |  |
| :---: | :---: | ---: | ---: | ---: |
| $2013-14$ | 2198 | 912 | 881 | 3991 |
|  |  | 0 | 0 |  |
| $2014-15$ | 2240 | 948 | 918 | 4106 |
|  |  | 0 | 0 |  |
| $2015-16$ | 2371 | 927 | 964 | 4262 |
|  |  | 0 | 0 |  |
| $2016-17$ | 2476 | 947 | 983 | 4406 |

Elementary School Projections

| EL Totals | K | 1 | 2 | 3 | 4 | K-5 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012-13 | 452 | 440 | 406 | 446 | 439 | 2183 |
|  |  | 1.05342 | 0.99558 | 0.99567 | 1.00210 |  |
| 2013-14 | 408 | 467 | 452 | 417 | 454 | 2198 |
|  | 0.90265 | 1.18095 | 1.02637 | 0.99778 | 1.01739 |  |
| 2014-15 | 422 | 450 | 483 | 468 | 417 | 2240 |
|  | 1.03431 | 1.12195 | 0.96976 | 1.03953 | 1.02000 |  |
| 2015-16 | 451 | 447 | 484 | 508 | 481 | 2371 |
|  | 1.06872 | 0.99113 | 1.07556 | 1.05176 | 1.02778 |  |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |
| 1 year | 1.04878 | 1.07095 | 1.07830 | 1.05372 | 1.03937 |  |
| 2 Year Rate | 1.05875 | 1.03104 | 1.07693 | 1.05274 | 1.03357 |  |
| 3 Year Rate | 1.05060 | 1.06135 | 1.04120 | 1.04833 | 1.02905 |  |
| 4 Year Rate | 1.01362 | 1.09125 | 1.03750 | 1.03570 | 1.02613 |  |
|  |  | Retention R | te Used | 2 Year R |  |  |
| Assumptions |  |  |  |  |  |  |
| KDG Rate | 1 year |  |  |  |  |  |
| AUX | K | 1 | 2 | 3 | 4 | K-5 Total |
| 2016-17 | 138 | 121 | 144 | 135 | 170 | 708 |
| Increase | 20 | 4 | -22 | 8 | 42 | 52 |
| 2017-18 | 150 | 147 | 135 | 157 | 144 | 733 |
| Increase | 12 | 26 | -9 | 22 | -26 | 25 |
| 2018-19 | 163 | 160 | 164 | 147 | 168 | 802 |
| Increase | 13 | 13 | 29 | -10 | 24 | 69 |
| 2019-20 | 177 | 174 | 178 | 178 | 157 | 864 |
| Increase | 14 | 14 | 14 | 31 | -11 | 62 |
| 2020-21 | 192 | 188 | 194 | 194 | 190 | 958 |
| Increase | 15 | 14 | 16 | 16 | 33 | 94 |
| 2021-22 | 208 | 204 | 209 | 211 | 207 | 1039 |
| Increase | 16 | 16 | 15 | 17 | 17 | 81 |
| Assumptions |  |  |  |  |  |  |
| KDG +/- | 1 year |  |  |  |  |  |
| JES | K | 1 | 2 | 3 | 4 | K-5 Total |
| 2016-17 | 142 | 119 | 116 | 131 | 110 | 618 |
| Increase | 46 | 17 | 21 | 24 | 31 | 139 |
| 2017-18 | 157 | 154 | 135 | 129 | 143 | 718 |
| Increase | 15 | 35 | 19 | -2 | 33 | 100 |
| 2018-19 | 173 | 170 | 175 | 150 | 140 | 808 |
| Increase | 16 | 16 | 40 | 21 | -3 | 90 |
| 2019-20 | 191 | 188 | 193 | 194 | 163 | 929 |
| Increase | 18 | 18 | 18 | 44 | 23 | 121 |
| 2020-21 | 211 | 207 | 213 | 214 | 211 | 1056 |
| Increase | 20 | 19 | 20 | 20 | 48 | 127 |
| 2021-22 | 233 | 229 | 235 | 236 | 233 | 1166 |
| Increase | 22 | 22 | 22 | 22 | 22 | 110 |


| EL Totals | K | 1 | 2 | 3 |  | 4 | K-5 Total |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: |
| 2016-17 | 473 | 483 | 482 | 510 | 528 | 2476 |  |  |  |
| $2017-18$ | 513 | 503 | 535 | 523 | 543 | 2617 | $5.69 \%$ |  |  |
| Increase | 40 | 20 | 53 | 13 | 15 | 141 |  |  |  |
| $2018-19$ | 556 | 546 | 560 | 580 | 557 | 2799 | $6.95 \%$ |  |  |
| Increase | 43 | 43 | 25 | 57 | 14 | 182 |  |  |  |
| 2019-20 | 602 | 592 | 608 | 608 | 616 | 3026 | $8.11 \%$ |  |  |
| Increase | 46 | 46 | 48 | 28 | 59 | 227 |  |  |  |
| 2020-21 | 652 | 641 | 659 | 662 | 649 | 3263 | $7.83 \%$ |  |  |
| Increase | 50 | 49 | 51 | 54 | 33 | 237 |  |  |  |
| 2021-22 | 707 | 694 | 713 | 716 | 707 | 3537 | $8.40 \%$ |  |  |
| Increase | 55 | 53 | 54 | 54 | 58 | 274 |  |  |  |

Assumptions

| KDG +/- | 1 year | 1 | 2 | 3 | 4 | K-5 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-17 | 83 | 126 | 117 | 126 | 132 | 584 |
| Increase | -35 | -3 | -2 | 0 | 21 | -19 |
| 2017-18 | 88 | 86 | 136 | 124 | 131 | 565 |
| Increase | 5 | -40 | 19 | -2 | -1 | -19 |
| 2018-19 | 93 | 91 | 93 | 144 | 129 | 550 |
| Increase | 5 | 5 | -43 | 20 | -2 | -15 |
| 2019-20 | 98 | 96 | 99 | 98 | 149 | 540 |
| Increase | 5 | 5 | 6 | -46 | 20 | -10 |
| 2020-21 | 103 | 102 | 104 | 105 | 102 | 516 |
| Increase | 5 | 6 | 5 | 7 | -47 | -24 |
| 2021-22 | 109 | 107 | 110 | 110 | 109 | 545 |
| Increase | 6 | 5 | 6 | 5 | 7 | 29 |

Assumptions
KDG +/- 1 year

| WT | K | 1 | 2 | 3 | 4 | K-5 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-17 | 110 | 117 | 105 | 118 | 116 | 566 |
| Increase | 20 | 15 | 2 | 10 | 17 | 64 |
| 2017-18 | 118 | 116 | 129 | 113 | 125 | 601 |
| Increase | 8 | -1 | 24 | -5 | 9 | 35 |
| 2018-19 | 127 | 125 | 128 | 139 | 120 | 639 |
| Increase | 9 | 9 | -1 | 26 | -5 | 38 |
| 2019-20 | 136 | 134 | 138 | 138 | 147 | 693 |
| Increase | 9 | 9 | 10 | -1 | 27 | 54 |
| 2020-21 | 146 | 144 | 148 | 149 | 146 | 733 |
| Increase | 10 | 10 | 10 | 11 | -1 | 40 |
| 2021-22 | 157 | 154 | 159 | 159 | 158 | 787 |
| Increase | 11 | 10 | 11 | 10 | 12 | 54 |


| MIS/MJHS | 4 Year Rate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5 | 6 | MIS Tot | 7 | 8 | MJH Tot |
| 2016-17 | 491 | 456 | 947 | 497 | 486 | 983 |
| Increase | 491 | 456 | 946 | 496 | 485 | 2873.89285 |
| 2017-18 | 559 | 522 | 1081 | 473 | 519 | 992 |
| Increase | 68 | 66 | 134 | -24 | 33 | 9 |
| 2018-19 | 575 | 594 | 1169 | 541 | 494 | 1035 |
| Increase | 16 | 72 | 88 | 68 | -25 | 43 |
| 2019-20 | 589 | 611 | 1200 | 616 | 565 | 1181 |
| Increase | 14 | 17 | 31 | 75 | 71 | 146 |
| 2020-21 | 652 | 626 | 1278 | 634 | 643 | 1277 |
| Increase | 63 | 15 | 78 | 18 | 78 | 96 |
| 2021-22 | 687 | 693 | 1380 | 649 | 662 | 1311 |
| Increase | 35 | 67 | 102 | 15 | 19 | 34 |

# Minooka CCSD 201 Facilities Advisory Committee <br> Recommendation to the Board of Education 

November 20, 2017

> Appendix F - Committee's List of Options, evaluated against criteria Appendix G - STR Summary of Classroom Space Options, Options with Capacity

Once consensus on enrollment was reached, the Committee turned its efforts towards brainstorming various options for creating the necessary classroom space to meets the growing enrollments. The three areas initially explored by the Committee were:

1. Leasing space in an existing building
2. Installing temporary or portable classrooms
3. Creating or building new classrooms
a. Additions to existing facilities
b. Construct new school facilities

The Committee was able to agree quickly that leasing or installing temporary classrooms should be considered as a short-term solution that Administration and the Board could employ to rapidly respond to an unexpected change in enrollments. The probability of continued student enrollment growth pushed the Committee towards concentrating on a long-term solution that would provide additional classrooms for years to come.

From there, the Committee spent one of their meetings brainstorming various solutions. Such suggestions included new school buildings, additions to all existing facilities, building at some levels but reconfiguring grade levels to distribute our student population in different ways, building new facilities and converting existing facilities into elementary from intermediate, and many combinations of the above. A multitude of ideas were brought into the discussion for analysis.

At the following meeting we agreed upon a set of criteria with which to evaluate the options. Committee members worked in groups to analyze the space options, and then a subsequent group re-evaluated to ensure every option had at least two points of scrutiny.

The following documents are the results of the Committee's brainstorming and evaluation session, along with supporting figures that show capacity and cost estimations. Areas coded green were seen to pass the criteria, yellow was a middle ground and red meant that the option did not meet the criteria. After two evaluations, the Committee narrowed the options down to four that seemed to rise to the top based upon the group consensus. The Committee then agreed that Administration would work with STR over the remainder of the summer to revise and bring back more detailed information on the top four options.

Appendix F - Committee List of Options with Criteria

Provides adequate space for all immediate enrollment projections

## Provides space for future enrollment

needs
Is "Right-Sized" and does not overbuild

Allows for future expansion if growth continues
Common school spaces are not over burdened

Classroom space can be delivered by 2019-20 school year
Addresses "Parity" between school facilities
Has something for all tax payers

Fiscally responsible - wise use of taxpayer funds
 Provides operational benefits

Construction is disruptive to current school

Evaluation Legend




| Option 1 - Add ES, New 5-8, Add ES |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 Classroom Addtion to Jones ES | North | Jones ES | 15 | 150 |  |  |  |
| New 5-8 Intermediate/Junior High School | North | Seil Road | 40 | 1500 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 1800 | 6800 | 5646 | 1154 |
| Option 2 - New ES, New 5-8, New ES |  |  |  |  |  |  |  |
| New Elementary School | North | Sable Ridge | 11 | 750 |  |  |  |
| New 5-8 Intermediate/Junior High School | North | Seil Road | 40 | 1500 |  |  |  |
| New Elementary School | South | Select Site South | TBD | 750 |  |  |  |
|  |  |  |  | 3000 | 8000 | 5646 | 2354 |
| Option 3 - New ES, New 5-8, Add ES |  |  |  |  |  |  |  |
| New Elementary School | North | Sable Ridge | 11 | 750 |  |  |  |
| New 5-8 Intermediate/Junior High School | North | Seil Road | 40 | 1500 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 2400 | 7400 | 5646 | 1754 |
| Option 4A - New ES, New Prot IS, Add ES |  |  |  |  |  |  |  |
| New Elementary School | North | Sable Ridge | 11 | 750 |  |  |  |
| New Prototype Intermediate | North | Seil Road | 40 | 1000 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 1900 | 6900 | 5646 | 1254 |


| Description | Location ( N or S of 180) | Site | Size of Site (acres) | No. of Students Added | District Capacity in 2021-22 | Projected need | Excess/Defi cite |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Option 4B - New ES, New Prot 5-6, New Proto 7-8, Add ES |  |  |  |  |  |  |  |
| New Elementary School | North | Sable Ridge | 11 | 750 |  |  |  |
| New Prototype Intermediate for 5-6 | North | Seil Road | 30 | 1000 |  |  |  |
| New Prototype Intermediate for 7-8 | North | Seil Road | 10 | 1000 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 2900 | 7900 | 5646 | 2254 |
| Option 5 - New ES, New 5-8, Add ES |  |  |  |  |  |  |  |
| New Elementary School | North | Seil Road | 15 | 750 |  |  |  |
| New 5-8 Intermediate/Junior High School | North | Seil Road | 25 | 1000 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 1900 | 6900 | 5646 | 1254 |
| Option 6A - New ES, New Prot 5-6, Add ES |  |  |  | 750 |  |  |  |
| New Elementary School | North | Seil Road | 15 |  |  |  |  |
| New Prototype Intermediate for 5-6 | North | Seil Road | 25 | 1000 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 1900 | 6900 | 5646 | 1254 |
| Option 6B - New ES, New Prot 5-6, New Prot 7-8, Add ES |  |  |  |  |  |  |  |
| New Elementary School | North | Seil Road | 15 | 750 |  |  |  |
| New Prototype Intermediate for 5-6 | North | Seil Road | 30 | 1000 |  |  |  |
| New Prototype Intermediate for 7-8 | North | Seil Road | 10 | 1000 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 2900 | 7900 | 5646 | 2254 |
| Option 7 - Add ES, New Prot 5-6, New Prot 7-8, Add ES |  |  |  |  |  |  |  |
| 6 Classroom Addtion to Jones ES | North | Jones ES | 15 | 150 |  |  |  |
| New Prototype Intermediate for 5-6 | North | Seil Road | 30 | 1000 |  |  |  |
| New Prototype Intermediate for 7-8 | North | Seil Road | 10 | 1000 |  |  |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |  |  |
|  |  |  |  | 2300 | 7300 | 5646 | 1654 |

Option 8A - Add ES, Add MJHS, New Proto 5-6, Add ES

| 6 Classroom Addtion to Jones ES | North | Jones ES | 15 | 150 |  |
| :--- | :--- | :--- | :---: | :---: | :---: |
| 10 Classroom Additions at MJHS | Center | MJHS | 25 | 250 |  |
| New Prototype Intermediate for 5-6 | North | Seil Road | 20 | 1000 |  |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |  |
|  |  |  |  | 1550 | 6550 |

Option 8B - New ES, Add MJHS, New Prot 5-6, Add ES

| New Elementary School | North | Seil Road | 15 | 750 |
| :--- | :--- | :--- | :--- | ---: |
| 10 Classroom Additions at MJHS | Central | MJHS | 25 | 250 |
| New Prototype Intermediate for 5-6 | North | Seil Road | 20 | 1000 |
| 6 Classroom Additon to Aux Sable | South | Aux Sable | 11 | 150 |

Option 9A - Convert, Convert, Convert, New 6-8

| Convert to K-3 all Elementary Schools | Dist Wide Aux, JES, MES, | NA | 3000 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Convert MIS to 4-5 grade center | Central | MIS | NA | 1000 |  |
| Convert MJHS to 6-8 | Central | MJHS | NA | 1000 |  |
| New 6-8 Junior High School | North | Seil Road | 25 | 1000 |  |
|  |  |  | 6000 | 11000 | 5646 |

Option 9B - Convert, Convert, Convert, New 4-5, New 6-8

| Convert to K-3 all Elementary Schools | Dist Wide | Aux, JES, MES, | NA | 3000 |
| :--- | :--- | :--- | :---: | :---: |
| Convert MIS to 4-5 grade center | Central | MIS | NA | 1000 |
| Convert MJHS to 6-8 | Central | MJHS | NA | 1000 |
| New 4-5 grade center (based on Prototype E: TBD | TBD |  | 750 |  |
| New 6-8 Junior High School | North | Seil Road | 25 | 1000 |
|  |  |  | 6750 | 11750 |

Location Site

Size of Site
No. of District Projected need cite

Option 10 - Add ES, New Proto 5-8, Redistrict

| 10 Classroom Addtion to Jones ES | North | Jones ES | 15 | 250 |  |
| :--- | :--- | :--- | :---: | :---: | :---: |
| New Prototype Intermediate | North | Seil Road | 30 | 1000 |  |
| Redistirict Aux Sable to MES | South | Aux, MES, | NA | 0 |  |
|  |  |  | 1250 | 6250 | 5646 |

# Minooka CCSD 201 Facilities Advisory Committee <br> Recommendation to the Board of Education 

November 20, 2017

## Appendix H - STR August 17, 2017 Summary of remaining options

When the Committee reconvened in August 2017, the remaining four options had been converted into both a financial analysis as well as a detailed timeline of the projects. The updated enrollments also caused a slight delay in reaching a consensus as the elementary projections had significantly changed.

The documents contained in this Appendix show the timelines for completing the various options presented to the Committee. From the information shown herein, the only option for creating adequate space for our Intermediate and Junior High grade levels by the 2019-20 school year was to replicate our Minooka Intermediate School prototype on the 40 acres owned by the District on Seil Rd in Shorewood. The design process for any other new facility would extend past the point in which construction would need to begin.

The remaining debate for the upper grade levels dealt with what grade levels and which geographic areas would attend these schools, and no consensus could be reached. There are logistical issues with simply dividing the District in half along a north/south boundary or having two elementary schools feed directly into the new facility. Identifying grade level configuration or attendance boundaries were not in the charge of this Committee, and while these issues were discussed at great length it was agreed that more time was needed to answer these questions.

The lower elementary enrollment data provided the Committee with an option not previously factored in: time. Based on the lowered projections, the Committee did not see the need to immediately break ground on elementary classroom space. Instead, they favored the Board designing a new elementary school when the numbers warrant action. If elementary growth occurs at a slower pace, additions to Aux Sable Elementary and Jones Elementary would be a lower cost option that would provide additional capacity of 150 students at each site.

The final recommendation was able to reach consensus from the Committee:
The Facilities Advisory Committee of Minooka CCSD 201 recommends that the Board of Education propose a referendum question to the voters of the District to build a new Minooka Intermediate School to house some configuration of grades $5-8$, a new elementary school and additions to existing elementary buildings. The Board should pose this question on the March 20, 2018 General Primary election date.

The elementary classrooms and any bonds issued to fund such space should only be started if and when the student enrollments and projections show the need.

| Description | Location ( N or S of 180) | Site | Size of Site (acres) | No. of Students Added |  | Estimated Cost | Comments | Current Capacity | Projected Capacity (Add + Cur) | Projected need | Excess/Defi cite |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Option A New 5-8, New ES, Add ES |  |  |  |  |  |  |  |  |  |  |  |
| New 5-8 Intermediate/Junior High School | North | Seil Road | 40 | 1000 | \$ | 45,000,000 | per Gilbane estimate 7/28/18 |  |  |  |  |
| New Elementary School | North | Sable Ridge | 11 | 750 |  | 33,000,000 | per Gilbane estimate 7/28/17 |  |  |  |  |
| 6 Classroom Additon | South | Aux Sable | TBD | 150 | \$ | 6,000,000 | TBD |  |  |  |  |
|  |  |  |  | 1900 | \$ | 84,000,000 |  | 5000 | 6900 | 5646 | 1254 |
| Option B - New Proto 5-6, New Proto 7-8, New ES, Add ES |  |  |  |  |  |  |  |  |  |  |  |
| New Prototype Intermediate for 5-6 | North | Seil Road | 30 | 1000 | \$ | 45,000,000 | per Gilbane estimate 7/28/17 |  |  |  |  |
| New Prototype Intermediate for 7-8 | North | Seil Road | 10 | 1000 | \$ | 45,000,000 | per Gilbane estimate 7/28/18 |  |  |  |  |
| New Elementary School | North | Sable Ridge | 11 | 750 | \$ | 33,000,000 | per Gilbane estimate 7/28/19 |  |  |  |  |
| 6 Classroom Additon | South | Aux Sable | 11 | 150 | \$ | 6,000,000 | TBD |  |  |  |  |
|  |  |  |  | 2900 |  | 129,000,000 |  | 5000 | 7900 | 5646 | 2254 |
| Option C - Add ES, New Prot 5-6, New Prot 7-8, Add ES |  |  |  |  |  |  |  |  |  |  |  |
| New 5-8 Intermediate/Junior High School | North | Seil Road | 30 | 1000 | \$ | 45,000,000 | per Gilbane estimate 7/28/17 |  |  |  |  |
| New Elementary School | North | Sable Ridge | 15 | 150 | \$ | 33,000,000 | per Gilbane estimate 7/28/18 |  |  |  |  |
| 6 Classroom Additon | North | Jones ES | 10 | 1000 | \$ | 6,000,000 | TBD |  |  |  |  |
| 6 Classroom Additon | South | Aux Sable | 11 | 150 | \$ | 6,000,000 | TBD |  |  |  |  |
|  |  |  |  | 2300 |  | 90,000,000 |  | 5000 | 7300 | 5646 | 1654 |
| Option 9B - Convert, Convert, Convert, New 4-5, New 6-8 |  |  |  |  |  |  |  |  |  |  |  |
| Convert to K-3 all Elementary Schools | Dist Wide | Aux, JES, MES, WT | NA | 3000 | \$ | 500,000 | Note, 2021-22 proejcted K-3 enrollment <br> is $640+629+646+637=2,552$ <br> students |  |  |  |  |
| Convert MIS to 4-5 grade center | Central | MIS | NA | 1000 | \$ | 500,000 | Note, 2021-22 proejcted 4-5 enrollment is $638+622=1,260$ students |  |  |  |  |
| Convert MJHS to 6-8 | Central | MJHS | NA | 1000 | \$ | 500,000 | Note, 2021-22 proejcted 6-8 enrollment is $633+629+591+600=1,820$ students |  |  |  |  |
| New 4-5 grade center (based on Prototype ES) | TBD | TBD |  | 750 | \$ | 33,000,000 | per Gilbane estimate 7/28/18 |  |  |  |  |
| New prototype 6-8 Junior High School | North | Seil Road | 25 | 1000 | \$ | 45,000,000 | per Gilbane estimate 7/28/18 |  |  |  |  |
|  |  |  |  | 1750 |  | 79,500,000 |  | 5000 | 6750 | 5646 | 1104 |

## Minooka CCSD 201 Facilities Advisory Committee Recommendation to the Board of Education <br> November 20, 2017 <br> Appendix I-Summary of financing options

The financial impact and structure of any debt necessary to complete school construction was not part of the charge of the Committee. However, the members of the Committee were very cognizant of the cost of the various options and requested information on how the various options could be financed.

The following slides were presented as information only and are not a part of the Recommendation of the Committee. The information was prepared by PMA Securities, whom Minooka CCSD 201 has used as Financial Advisor on our previous bond issues. The options include a range of debt scenarios that change the focus on overall debt burden, immediate tax impact, annual payments vs annual tax rate, etc.


Minooka CCSD Number 201
TAMMIE BECKWITH SCHALLMO SENIOR VICE PRESIDENT, MANAGING DIRECTOR PMA SECURITIES, INC.

## March 2018 Referendum Scenarios

- Current Interest Bond (CIB):
- A bond that pays periodic interest payments. These bonds typically pay interest semi-annually until maturity.
- Zero-Coupon or Capital Appreciation Bond (CAB):
- A bond that does not have periodic interest payments. The investor receives one payment at maturity equal to the principal invested plus interest compounded semiannually at the original yield to maturity.
- The interest cost for CABs is higher for two reasons: (1) the payment of interest is deferred and (ii) the yield demanded by investors is higher than it is for a current interest bond
- The CAB premium can range from a low of $0.50 \%$ to $1.50 \%$ depending upon market conditions, credit quality and call feature (traditionally, CABs are sold without a call feature)
- Capitalized Interest
- Bond proceeds set aside to pay future interest payments
- Generally, the Federal tax code permits a maximum of three years

General Obligation Bonds Debt Service

|  |  | General Obligation Bonds Debt Service |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Levy <br> Year | Fiscal Year | Prior Debt Service | General <br> Obligation <br> School Bonds, <br> Series 2008 (Net <br> of Capitalized Interest) | General <br> Obligation <br> School <br> Refunding Bonds, Series 2010A | General <br> Obligation <br> School <br> Refunding Bonds, Series 2010B | General <br> Obligation <br> Refunding School Bonds, Series 2012 | General <br> Obligation <br> Refunding School Bonds, Series 2013 | General <br> Obligation <br> Refunding School Bonds, Series 2014 | Proposed <br> Taxable <br> General <br> Obligation <br> School Bonds, <br> Series 2017 (1) | Supplemental Lev | Other, <br> Difference Due to Refundings or Capitalized Interest | Total | EAV | Growth <br> Rate | B\&I Tax Rate | Projected <br> Change in <br> B\&I Tax <br> Rate over <br> Prior Year |
| $\begin{aligned} & 2011 \\ & 2012 \\ & 2013 \\ & 2014 \\ & 2015 \end{aligned}$ | $\begin{aligned} & 2013 \\ & 2014 \\ & 2015 \\ & 2016 \\ & 2017 \end{aligned}$ | $\begin{array}{r} \hline \$ \quad 518,209 \\ 214,534 \\ \hline 213,971 \end{array}$ | $\begin{array}{r} 1,070,744 \\ 941,313 \\ \hline 1,271,913 \\ \hline 1,661,513 \\ \hline 2,071,831 \end{array}$ | $\$ \quad 2,206,650$ $2,206,650$ $2,206,650$ $2,206,650$ $2,206,650$ | $\$$ | $\begin{array}{r} \hline \$ \quad 292,748 \\ \hline 535,000 \\ \hline 534,700 \\ \hline 533,100 \\ \hline 531,100 \\ \hline \end{array}$ | $\begin{array}{rr} \hline \$ & \\ \hline & 473,638 \\ \hline & 421,325 \\ \hline & 422,375 \\ \hline & 423,325 \\ \hline \end{array}$ | $\begin{aligned} & \hline \$ \\ & \hline \\ & \hline \begin{array}{l} 146,313 \\ \hline \end{array}{ }^{146,013} \end{aligned}$ | \$ | $\begin{array}{r} \$ \\ \hline \end{array} \begin{array}{r} 434,152 \\ \\ \hline \end{array}$ | $\begin{array}{rr} \hline \$ & 2,142 \\ \hline & 162 \\ \hline & (5,000) \end{array}$ | $\$ \quad 4,090,493$ <br> $-4,806,348$ <br> $5,082,714$ <br> $5,399,102$ <br> $5,378,919$ | $\$ \quad 769,008,079$ <br> $\quad 725,084,600$ <br> $693,125,434$ <br> $705,345,722$ <br> $743,515,355$ | $\begin{aligned} & -8.76 \% \\ & -5.71 \% \\ & -4.41 \% \\ & 4.76 \% \\ & 5.41 \% \end{aligned}$ | $\begin{array}{r} -0.5319 \\ -0.6629 \\ -0.7333 \\ -0.7655 \\ -0.7234 \\ \hline \end{array}$ |  |
| 2016 | 2018 | - | 2,434,550 | 2,206,650 |  | 509,100 | 424,175 | 254,613 | - - | - |  | 5,829,088 | 808,151,138 | 8.69\% | 0.7213 |  |
| 2017 | 2019 | - | 1,524,813 | 2,206,650 | - | 208,200 | 419,975 | 2,011,931 | 997,101 | - | - | 7,368,670 | 840,477,184 | 4.00\% | 0.8767 | 0.16 |
| 2018 | 2020 | - | 2,033,594 | 2,206,650 | - | 208,200 | 420,725 | 2,016,100 | 998,207 | - | - | 7,883,476 | 874,096,271 | 4.00\% | 0.9019 | 0.03 |
| 2019 | 2021 | - | 932,806 | 2,206,650 | - | 208,200 | 3,189,600 | 903,350 | 998,988 | - | - | 8,439,594 | 909,060,122 | 4.00\% | 0.9284 | 0.03 |
| 2020 | 2022 | - | 216,038 | 2,206,650 | - | 208,200 | 5,492,813 |  | 997,562 | - | - | 9,121,262 | 945,422,527 | 4.00\% | 0.9648 | 0.04 |
| 2021 | 2023 | - | - | 4,348,900 | 2,000,000 | 2,418,100 | - | - | 243,048 | - | - | 9,010,048 | 983,239,428 | 4.00\% | 0.9164 | (0.05) |
| 2022 | 2024 | - | - | 5,012,400 | 2,000,000 | 2,419,000 | - | - | - | - | - | 9,431,400 | 1,022,569,005 | 4.00\% | 0.9223 | 0.01 |
| 2023 | 2025 | - | - | 8,267,894 | 2,000,000 |  | - | - | - | - | - | 10,267,894 | 1,063,471,765 | 4.00\% | 0.9655 | 0.04 |
| 2024 | 2026 | - | - | 8,559,319 | 2,500,000 |  | - | - | - | - | - | 11,059,319 | 1,106,010,636 | 4.00\% | 0.9999 | 0.03 |
| 2025 | 2027 | - | - | 9,045,450 | 3,000,000 | - | - | - | - | - | - | 12,045,450 | 1,150,251,061 | 4.00\% | 1.0472 | 0.05 |
| 2026 | 2028 | - | - | 9,616,575 | 3,500,000 | - | - | - | - | - | - | 13,116,575 | 1,196,261,103 | 4.00\% | 1.0965 | 0.05 |
| 2027 | 2029 | - | - | 6,534,375 | 4,500,000 |  | - | - | - | - | - | 11,034,375 | 1,244,111,548 | 4.00\% | 0.8869 | (0.21) |
| 2028 | 2030 | - | - | - | - | - | - | - | - | - | - | - | 1,293,876,009 | 4.00\% | - | (0.89) |
| 2029 | 2031 | - | - | - | - | - | - | - | - | - | - | - | 1,345,631,050 | 4.00\% | - | 0.00 |
| 2030 | 2032 | - | - | - | - | - | - | - | - | - | - | - | 1,399,456,292 | 4.00\% | - | 0.00 |
| 2031 | 2033 | - | - | - | - | - | - | - | - | - | - | - | 1,455,434,543 | 4.00\% | - | 0.00 |
| 2032 | 2034 | - | - | - | - | - | - | - | - | - | - | - | 1,513,651,925 | 4.00\% | - | 0.00 |
| 2033 | 2035 | - | - | - | - | - | - | - | - | - | - | - | 1,574,198,002 | 4.00\% | - | 0.00 |
| 2034 | 2036 | - | - | - | - | - | - | - | - | - | - | - | 1,637,165,922 | 4.00\% | - | 0.00 |
| 2035 | 2037 | - | - | - | - | - | - | - | - | - | - | - | 1,702,652,559 | 4.00\% | - | 0.00 |
| 2036 | 2038 |  |  |  |  |  |  |  |  | - |  | - | 1,770,758,662 | 4.00\% | - | 0.00 |
| Total Curr | From FY: | \$ | \$ 7,141,800 | \$ 62,418,163 | \$ 19,500,000 | \$ 6,179,000 | \$ 9,947,288 | \$ 5,185,994 | \$ 4,234,906 | \$ | \$ | \$ 114,607,150 |  |  |  |  |

$\overline{(1)}$ Rates based upon U.S. Treasury yields for July 14, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$.
NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.

Annual Debt Service Payments with Estimated 2017 Bonds



|  |  | General Obligation Bonds Debt Service |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Ley } \\ & \text { Year } \\ & \hline \end{aligned}$ | Fiscal Year | Prior Debt Service | General Obligation School Bonds, Series 2008 (Net of Capitalized Interest) | General <br> Obligation <br> School <br> Refunding <br> Bonds, Series <br> 2010A | General <br> Obligation <br> School <br> Refunding <br> Bonds, Series <br> 2010B | General <br> Obligation <br> Refunding School Bonds, Series 2012 | General <br> Obligation <br> Refunding School Bonds, Series 2013 | General <br> Obligation <br> Refunding School Bonds, Series 2014 | Proposed <br> Taxable <br> General <br> Obligation <br> School Bonds, <br> Series 2017 (1) | Proposed General Obligation Refunding School Bonds, Series 2018 [Est. Savings] $\qquad$ | Proposed General Obligation School Building Bonds, Series $\qquad$ | Proposed General Obligation Refunding School Bonds, Series 2019 [Est. Savings] $\qquad$ | $\begin{gathered} \begin{array}{c} \text { Supplemental } \\ \text { Lewy } \end{array} \\ \hline \end{gathered}$ | Other, <br> Difference Due to Refundings or Capitalized Interest | Total | EAV | Growth <br> Rate | $\begin{gathered} \text { B\&I Tax } \\ \text { Rate } \\ \hline \end{gathered}$ | Projected Change in B\&I Tax Rate over Prior Year |
| $\begin{aligned} & \hline 2011 \\ & 2012 \\ & 2013 \\ & 2014 \\ & 2015 \end{aligned}$ | $\begin{aligned} & 2013 \\ & 2014 \\ & 2015 \\ & 2016 \\ & 2017 \end{aligned}$ | $\begin{array}{r} \hline \$ \quad 518,209 \\ \hline \quad 214,534 \\ \hline 213,971 \\ \hline \end{array}$ | $\begin{array}{rr} \hline \$ & 1,070,744 \\ \hline 941,313 \\ \hline 1,271,913 \\ \hline & 1,661,513 \\ 2,071,831 \end{array}$ | $\begin{array}{r} \hline \$ \quad 2,206,650 \\ 2,206,650 \\ \hline 2,206,650 \\ \hline 2,206,650 \\ 2,206,650 \end{array}$ | $\$$ | $\begin{array}{r} \hline \$ \quad 292,748 \\ 535,900 \\ \hline 53,700 \\ \hline 533,100 \\ \hline 531,100 \end{array}$ | $\$ \quad 473,638$ <br> 421,325 <br> 422,375 <br> 423,325 | $\$$ <br>  <br> 146,313 <br> 146,013 | \$ | \$ | \$ | \$ | $\begin{array}{ll} \hline \$ & \\ \hline & 434,152 \\ \hline & 434,152 \\ & 434,152 \end{array}$ |  |  | $\$ 69,008,079$ <br> $\mathbf{7 2 5 , 0 8 4 , 6 0 0}$ <br> $693,125,434$ <br> $705,345,722$ <br> $743,515,355$ | $\begin{gathered} -8.76 \% \\ -5.71 \% \\ -4.41 \% \\ \hline 1.76 \% \\ 5.41 \% \end{gathered}$ | 0.5319 <br> 0.6629 <br> 0.7333 <br> 0.7655 <br> 0.7234 |  |
| 2016 | 2018 |  | 2,434,550 | 2,206,650 |  | 509,100 | 424,175 | 254,613 |  |  | - |  | - | - | 5,829,088 | 808,151,138 | 8.69\% | 0.7213 |  |
| 2017 | 2019 |  | 1,524,813 | 2,206,650 |  | 208,200 | 419,975 | 2,011,931 | 997, 101 |  | 1,884,150 |  |  | (1,884,150) | 7,368,670 | $848,558,695$ | 5.00\% | 0.8684 | 0.15 |
| 2018 | 2020 |  | 2,033,594 | 2,206,650 | - | 208,200 | 420,725 | 2,016,100 | 998,207 | $(175,219)$ | 2,559,600 |  |  |  | 10,267,857 | 890,986,630 | 5.00\% | 1.1524 | 0.28 |
| 2019 | 2021 |  | 932,806 | 2,206,650 | - | 208,200 | 3,189,600 | 903,350 | 998,988 | (6) | 2,559,600 | (729,825) |  |  | 10,269,363 | 935,535,961 | 5.00\% | 1.0977 | (0.05) |
| 2020 | 2022 |  | 216,038 | 2,206,650 |  | 208,200 | 5,492,813 |  | 997,562 | $(206,888)$ | 2,559,600 | (729,825) |  |  | 10,744,150 | 982,312,759 | 5.00\% | 1.0938 | (0.00) |
| 2021 | 2023 |  |  | 4,348,900 | 2,000,000 | 2,418,100 |  |  | 243,048 | 309,575 | 2,559,600 | $(1,611,275)$ |  |  | 10,267,948 | 1,031,428,397 | 5.00\% | 0.9955 | (0.10) |
| 2022 | 2024 |  |  | 5,012,400 | 2,000,000 | 2,419,000 |  |  |  |  | 2,559,600 | $(1,722,175)$ |  |  | 10,268,825 | 1,082,999,817 | 5.00\% | 0.9482 | (0.05) |
| 2023 | 2025 |  |  | 8,267,894 | 2,000,000 |  |  |  |  |  | 2,559,600 | $(2,561,719)$ |  |  | 10,265,775 | 1,137,149,808 | 5.00\% | 0.9028 | (0.05) |
| 2024 | 2026 |  |  | 8,559,319 | 2,500,000 | - |  |  |  |  | 2,559,600 | $(3,349,294)$ |  |  | 10,269,625 | 1,194,007,298 | 5.00\% | 0.8601 | (0.04) |
| 2025 | 2027 |  |  | 9,045,450 | 3,000,000 |  |  |  |  |  | 2,559,600 | $(4,335,250)$ |  |  | 10,269,800 | 1,253,707,663 | 5.00\% | 0.8192 | (0.04) |
| 2026 | 2028 |  |  | 9,616,575 | 3,500,000 | - | - |  |  | - | 2,559,600 | $(5,407,688)$ | - | - | 10,268,488 | 1,316,393,046 | 5.00\% | 0.7800 | (0.04) |
| 2027 | 2029 |  |  | 6,534,375 | 4,500,000 |  |  |  |  |  | 2,559,600 | $(3,388,225)$ |  |  | 10,265,750 | 1,382,212,699 | 5.00\% | 0.7427 | (0.04) |
| 2028 | 2030 | - | - |  |  | - | - |  |  |  | 2,559,600 | 7,709,700 |  |  | 10,269,300 | 1,451,323,334 | 5.00\% | 0.7076 | (0.04) |
| 2029 | 2031 | - | - | - | - | - | - |  |  |  | 2,559,600 | 7,708,000 |  | - | 10,267,600 | 1,523,889,500 | 5.00\% | 0.6738 | (0.03) |
| 2030 | 2032 |  | - |  |  | - |  |  |  |  | 3,848,300 | 6,420,900 |  |  | 10,269,200 | 1,600,083,975 | 5.00\% | 0.6418 | (0.03) |
| 2031 | 2033 | - | - |  | - | - | - |  | . | - | 10,268,600 | - | - | - | 10,268,600 | 1,680,088,174 | 5.00\% | 0.6112 | (0.03) |
| 2032 | 2034 |  |  |  |  |  |  |  |  |  | 10,269,238 |  |  |  | 10,269,238 | 1,764,092,583 | 5.00\% | 0.5821 | (0.03) |
| 2033 | 2035 | - | - |  | - | - | - |  |  |  | 10,268,763 |  |  |  | 10,268,763 | 1,852,297,212 | 5.00\% | 0.5544 | (0.03) |
| 2034 | 2036 |  | - |  | - | - |  |  |  |  | 10,267,625 |  |  |  | 10,267,625 | 1,944,912,072 | 5.00\% | 0.5279 | (0.03) |
| 2035 | 2037 | - | - | - | - | - | - | - | - | - | 10,267,750 | - | - | - | 10,267,750 | 2,042,157,676 | 5.00\% | 0.5028 | (0.03) |
| 2036 | 2038 |  |  |  |  |  |  |  |  |  | 10,239,750 |  |  |  | 10,239,750 | 2,144,265,560 | 5.00\% | 0.4775 | (0.03) |
| Total Curr | $\begin{aligned} & \text { S From } \\ & \text { tt FY: } \end{aligned}$ | \$ | \$ 7,141,800 | \$ 62,418,163 | \$ 19,500,000 | \$ 6,179,000 | \$ 9,947,288 | \$ 5,185,994 | \$ 4,234,906 | \$ (72,538) | \$ 98,029,375 | \$ (1,936,675) | \$ - | \$ (1,884,150) | \$ 208,743,163 |  |  |  |  |

(1) Rates based upon U.S. Treasury yields for July 14, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$.
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$.

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.
Series 2018 (Refunds 2008 Bonds) Series 2019 (Refunds 2010A Bonds)

Par Amount of Refunded Bonds
Total Savings (Additional Cost)
Present Value (PV) Savings
84,629
4,110,284
\$3,020,000
\$42,335,000

Estimated PV Savings as \% of Refunded Bonds
2.80\%
9.71\%



B\&I Tax

(1) Rates based upon U.S. Treasury yields for July 14, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.
Series 2018 (Refunds 2008 Bonds) Series 2019 (Refunds 2010A Bonds)

## Par Amount of Refunded Bonds

Total Savings (Additional Cost)
Present Value (PV) Savings
\$3,020,000
\$42,335,000

110,712
6,014,075

Estimated PV Savings as \% of Refunded Bonds
62,332
4,996,035
2.06\%



## LEVEL BOND \& INTEREST RATE - CURRENT INTEREST BONDS \$55M REFERENDUM WITH RESTRUCTURING IN 2018 AND 2019

|  |  |  |  |  |  |  |  | General Oblig | gation Bonds D | ebt Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Lew } \\ & \text { Year } \\ & \hline \end{aligned}$ | Fiscal Year | Prior Debt Serice | General Obligation School Bonds, Series 2008 (Net of Capitalized Interest) | General Obligation School Refunding Bonds, Series 2010A | General <br> Obligation <br> School <br> Refunding <br> Bonds, Series <br> 2010B | General <br> Obligation <br> Refunding School Bonds, <br> Series 2012 | General <br> Obligation <br> Refunding <br> School Bonds, <br> Series 2013 | General <br> Obligation Refunding School Bonds, Series 2014 | Proposed <br> Taxable <br> General <br> Obligation <br> School Bonds, <br> Series 2017 (1) | Proposed <br> Taxable <br> General <br> Obligation <br> Refunding <br> School Bonds, <br> Series 2018 <br> [Est. Savings] <br> (3) | Proposed General Obligation Refunding School Bonds, Series 2018 [Est. Savings] <br> (2) | Proposed General Obligation School Building Bonds, Series 2018 (2) | Proposed General Obligation Refunding School Bonds, Series 2019 [Est. Savings] <br> (2) | Supplemental Levy | Other, Difference Due to Refundings or Capitalized Interest | Total | EAV | $\begin{gathered} \text { Growth } \\ \text { Rate } \\ \hline \end{gathered}$ | B\&I Tax | Projected <br> Change in B\&I Tax <br> Rate over <br> Prior Year |
| $\begin{aligned} & \hline 2011 \\ & 2012 \\ & 2013 \\ & 2014 \\ & 2015 \end{aligned}$ | $\begin{aligned} & \hline 2013 \\ & 2014 \\ & 2015 \\ & 2016 \\ & 2017 \end{aligned}$ | $\begin{array}{r} \hline \$ 18,209 \\ \hline \\ \hline \end{array} \quad 214,534$ | $\begin{array}{rr} \hline \$ & 1,070,744 \\ \hline & 941,313 \\ \hline & 1,271,913 \\ \hline & , 661,513 \\ \hline \end{array}$ | $\$ 2,206,650$ $-2,206,650$ $2,206,650$ $2,206,650$ $2,206,650$ |  | $\begin{array}{r} \hline \$ 292,748 \\ \hline 535,900 \\ \hline 534,700 \\ \hline 533,100 \\ 531,100 \\ \hline \end{array}$ | $\$ \quad 473,638$ <br>  <br>  | \$ <br>  <br> 146,313 <br> 146,013 |  |  | \$ |  |  | $\$$ <br>  <br>  | $\begin{array}{r}\$ \quad \begin{array}{r}2,142 \\ \hline \quad 162 \\ \hline-(5000)\end{array} \\ \hline\end{array}$ | $\$ \quad 4,090,493$ <br> $-4,806,348$ <br> $5,082,711$ <br> $5,390,102$ <br> $5,378,919$ | $769,008,079$ <br> $725,081,600$ <br> $693,125,434$ <br> 7 <br> $75,345,22$ <br> $743,515,355$ | $\begin{aligned} & -8.76 \% \\ & -5.71 \% \\ & -4.41 \% \\ & \hline .76 \% \\ & 5.41 \% \end{aligned}$ | -0.5319 <br> 0.6629 <br> 0.7333 <br> 0.7655 <br> 0.7234 |  |
| 2016 | 2018 |  | 2,434,550 | 2,206,650 |  | 509,100 | 424,175 | 254,613 |  |  |  |  |  |  |  | $5,829,088$ <br> $7,368,670$ | 808,151,138 | 8.69\% | $\frac{0.7213}{0.8684}$ |  |
| 2017 2018 | 2019 2020 |  | 1,524,813 | 2,206,650 2,206,650 |  | 208,200 208,200 | 419,975 | 2,011,931 | 997,101 998,207 | $(1,397,319)$ | $(1,915,994)$ | $1,922,943$ 2,612,300 |  |  | $(1,922,943)$ | 7,368,670 $7,182,463$ | $848,558,695$ $890,986,630$ | 5.00\% 5.00\% | $0.8684$ | $0.15$ (0.06) |
| 2019 | 2021 |  | 932,806 | 2,200,650 |  | 208,200 | $3,189,600$ 5 | 903,350 | 998,988 | (2,212, 336) | (815,206) | 2,612,300 | (543,900) |  |  | 7,480,452 | 935,535,961 | 5.00\% | 0.7996 | ${ }^{(0.01)}$ |
| 2020 | 2022 |  | 216,038 | 2,206,650 |  | 208,200 | 5,492,813 |  | 997,562 | $(3,177,603)$ | $(98,438)$ | 2,612,300 | $(543,900)$ |  |  | 7,913,622 | 982,312,759 | 5.00\% | 0.8056 | 0.01 |
| 2021 | 2023 |  |  | 4,348,900 | 2,000,000 | 2,418,100 |  |  | 243,048 | $(748,853)$ | 117,600 | 2,612,300 | $(2,686,150)$ |  |  | 8,304,945 | 1,031,428,397 | 5.00\% | 0.8052 | (0.00) |
| 2022 | 2024 | - |  | 5,012,400 | 2,000,000 | 2,419,000 |  |  |  | (133,853) | 117,600 | 2,612,300 | (3,349,650) |  |  | 8,677,797 | 1,082,999,817 | 5.00\% | 0.8013 | (0.00) |
| 2023 | 2025 |  |  | 8,267,894 | 2,000,000 |  |  |  |  | 2,702,831 | 117,600 | 2,612,300 | $(6,605,144)$ |  |  | 9,095,481 | 1,137,149,808 | 5.00\% | 0.7998 | (0.00) |
| 2024 | 2026 | - |  | 8,559,319 | 2,500,000 |  | - |  |  | 2,658,440 | 117,600 | 2,612,300 | $(6,896,569)$ |  |  | 9,551,090 | 1,194,007,298 | 5.00\% | 0.7999 | 0.00 |
| 2025 | 2027 | - |  | 9,045,450 | 3,000,000 |  |  |  |  | 2,632,465 | 117,600 | 2,612,300 | $(7,382,700)$ |  |  | 10,025,115 | 1,253,707,663 | 5.00\% | 0.7996 | (0.00) |
| 2026 | 2028 | - | - | 9,616,575 | 3,500,000 | - | - |  |  | 2,153,783 | 117,600 | 2,612,300 | $(7,472,400)$ |  |  | 10,527,858 | 1,316,393,046 | 5.00\% | 0.7998 | 0.00 |
| 2027 | 2029 | - |  | 6,534,375 | 4,500,000 |  | - |  |  |  | 2,298,100 | 2,612,300 | $(4,888,775)$ |  |  | 11,056,000 | 1,382,212,699 | 5.00\% | 0.7999 | 0.00 |
| 2028 | 2030 | - | - | - |  |  |  |  |  |  | 729,300 | 2,612,300 | 8,265,500 |  |  | 11,607,100 | 1,451,323,334 | 5.00\% | 0.7998 | (0.00) |
| 2029 | 2031 | - |  |  |  |  |  |  |  |  |  | 2,612,300 | 9,578,000 |  |  | 12,190,300 | 1,523,889,500 | 5.00\% | 0.7999 | 0.00 |
| 2030 | 2032 | - |  |  |  |  |  |  |  |  |  | 2,612,300 | 10,184,000 |  |  | 12,796,300 | 1,600,083,975 | 5.00\% | 0.7997 | (0.00) |
| 2031 | 2033 |  |  |  |  |  |  |  |  |  |  | 2,612,300 | 10,825,100 |  |  | 13,437,400 | 1,680,088,174 | 5.00\% | 0.7998 | 0.00 |
| 2032 | 2034 | - |  |  |  |  |  |  |  |  |  | 7,665,975 | 6,446,400 |  |  | 14,112,375 | 1,764,092,583 | 5.00\% | 0.8000 | 0.00 |
| 2033 | 2035 | - | - | - |  |  |  |  |  |  |  | 14,813,450 |  |  |  | 14,813,450 | 1,852,297,212 | 5.00\% | 0.7997 | (0.00) |
| 2034 | 2036 | - | - |  |  |  |  |  |  |  |  | 15,554,750 |  |  |  | 15,554,750 | 1,944,912,072 | 5.00\% | 0.7998 | 0.00 |
| 2035 | 2037 | - | - | - |  |  | - |  |  |  |  | 16,336,625 |  | - |  | 16,336,625 | 2,042,157,676 | 5.00\% | 0.8000 | 0.00 |
| 2036 | 2038 |  |  |  |  |  |  |  |  |  |  | 6,580,500 |  |  |  | 6,580,500 | 2,144,265,560 | 5.00\% | 0.3069 | (0.49) |
| Total Curr | $\begin{aligned} & \text { SFrom } \\ & \text { it } \mathrm{FY} \text { : } \end{aligned}$ | \$ | \$ 7,141,800 | \$ 62,418,163 | \$ 19,500,000 | \$ 6,179,000 | \$ 9,947,288 | \$ 5,185,994 | \$ 4,234,906 | \$ 2,477,555 | \$ 903,363 | \$ 99,446,443 | \$ 4,929,813 | \$ - | \$ (1,922,943) | \$220,441,380 |  |  |  |  |

$\overline{(1)}$ Rates based upon U.S. Treasury yields for July 14,2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$.
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$,

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.

> | $\begin{array}{c}\text { Series } 2018 \text { (Refunds } \\ 2008 \text { Bonds) }\end{array}$ | $\begin{array}{c}\text { Series } 2019 \text { (Refunds } \\ \text { 2010A Bonds) }\end{array}$ | 2010B \& 2013 Bonds) |
| :---: | :---: | :---: |

| Par Amount of Refunded Bonds | $\$ 3,020,000$ | $\$ 42,335,000$ | $\$ 9,416,846$ |
| :--- | :---: | :---: | ---: |
| Total Savings (Additional Cost) | $(903,362)$ | $(4,929,813)$ | $(2,555,395)$ |
| Present Value (PV) Savings | 62,163 | $3,061,282$ | $(567,498)$ |
| Estimated PV Savings as \% of Refunded Bonds | $2.06 \%$ | $7.23 \%$ | $-6.03 \%$ |




Projected
Change in
Change in
B\&I Tax

Growth B\&l Tax Rate over Rate Rate Prior Year 8.76\% 0.5349 $-571 \%-0.6629$ 5.76\% 0.7655 | $5.41 \%$ | 0.7234 |
| :--- | :--- |
| $8.69 \%$ | 0.7213 |

| Year | Year | Service | Interest) | 2010A | 2010B | Series 2012 | Series 2013 | Series 2014 | Series 2017 (1) | (3) | (2) | $2018 \text { (2) }$ | (2) | Levy | Interest | Total | EAV | Rate | Rate | Prior Year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2011 | 2013 | \$-518,209 | \$ 1,070,744 | \$ 2,206,650 | § | \& 202,748 |  | \$ | \& | \$ | \$ | \$ | \$ |  | \$ 2,142 | \$-4,000,403 | \$-760,008,079 | 8.76\% | -0.5319 |  |
| 2012 | 2014 | 214,534 | 211,313 | -2,206050 |  | 535,000 | 73.6 |  |  |  |  |  |  | -434,152 | 162 | -1,806,348 | -725084,600 | 5.71\% | -0.6629 |  |
| 2013 | 2015 | 213,971 | 1,271,913 | -2,206,650 |  | 534,700 | 421,325 |  |  |  |  |  |  | 434,152 |  | -5,082,711 | -693,125,434 | -4.41\% | -0.7333 |  |
| 2014 | 2016 |  | 1,661,513 | -2,206,650 |  | 533,100 | 422,375 | -146,313 |  |  |  |  |  | - 434,152 | - (5,000) | -5,399,102 | -705,345,722 | 1.76\% | 0.7655 |  |
| 2015 | 2017 |  | 2,071,831 | 2,206,650 |  | 531,100 | 423,325 | 146,013 |  |  |  |  |  |  |  | -5,378,919 | 743,515,355 | 5.11\% | 0.7234 |  |
| 2016 | 2018 | - | 2,434,550 | 2,206,650 |  | 509,100 | 424,175 | 254,613 |  | - | - |  | - | - |  | 5,829,088 | 808,151,138 | 8.69\% | 0.7213 |  |
| 2017 | 2019 |  | 1,524,813 | 2,206,650 |  | 208,200 | 419,975 | 2,011,931 | 997,101 |  |  | 3,074,478 |  |  | (3,074,478) | 7,368,670 | 848,558,695 | 5.00\% | 0.8684 | 0.15 |
| 2018 | 2020 |  | 2,033,594 | 2,206,650 |  | 208,200 | 420,725 | 2,016,100 | 998,207 | $(1,436,195)$ | $(1,918,744)$ | 4,176,650 | - | - |  | 8,705,188 | 890,986,630 | 5.00\% | 0.9770 | 0.11 |
| 2019 | 2021 | - | 932,806 | 2,206,650 |  | 208,200 | 3,189,600 | 903,350 | 998,988 | $(2,061,601)$ | $(817,956)$ | 4,176,650 | $(569,650)$ |  |  | 9,167,037 | 935,535,961 | 5.00\% | 0.9799 | 0.00 |
| 2020 | 2022 |  | 216,038 | 2,206,650 |  | 208,200 | 5,492,813 |  | 997,562 | $(3,093,820)$ | $(101,188)$ | 4,176,650 | $(569,650)$ | - |  | 9,533,255 | 982,312,759 | 5.00\% | 0.9705 | (0.01) |
| 2021 | 2023 | - |  | 4,348,900 | 2,000,000 | 2,418,100 | - | - | 243,048 | $(587,300)$ | 114,850 | 4,176,650 | $(2,711,900)$ | - |  | 10,002,348 | 1,031,428,397 | 5.00\% | 0.9698 | (0.00) |
| 2022 | 2024 | - |  | 5,012,400 | 2,000,000 | 2,419,000 | - |  |  | 322,032 | 114,850 | 4,176,650 | $(3,375,400)$ |  |  | 10,669,532 | 1,082,999,817 | 5.00\% | 0.9852 | 0.02 |
| 2023 | 2025 | - | - | 8,267,894 | 2,000,000 | - | - | - | - | 3,100,526 | 114,850 | 4,176,650 | $(6,630,894)$ | - | - | 11,029,026 | 1,137,149,808 | 5.00\% | 0.9699 | (0.02) |
| 2024 | 2026 | - |  | 8,559,319 | 2,500,000 | - | - |  | - | 3,152,210 | 114,850 | 4,176,650 | $(6,922,319)$ | - |  | 11,580,710 | 1,194,007,298 | 5.00\% | 0.9699 | 0.00 |
| 2025 | 2027 | - |  | 9,045,450 | 3,000,000 | - | - |  |  | 2,687,700 | 655,225 | 4,176,650 | $(7,408,450)$ | - |  | 12,156,575 | 1,253,707,663 | 5.00\% | 0.9696 | (0.00) |
| 2026 | 2028 | - |  | 9,616,575 | 3,500,000 | - | - |  | - |  | 95,600 | 4,176,650 | $(4,624,338)$ | - |  | 12,764,488 | 1,316,393,046 | 5.00\% | 0.9697 | 0.00 |
| 2027 | 2029 | - |  | 6,534,375 | 4,500,000 | - | - |  | - |  | 2,437,800 | 4,176,650 | $(4,245,638)$ | - |  | 13,403,188 | 1,382,212,699 | 5.00\% | 0.9697 | 0.00 |
| 2028 | 2030 | - | - |  |  | - | - |  |  |  |  | 4,176,650 | 9,898,400 |  |  | 14,075,050 | 1,451,323,334 | 5.00\% | 0.9698 | 0.00 |
| 2029 | 2031 | - | - | - | - | - | - |  | - |  | - | 4,176,650 | 10,603,800 |  |  | 14,780,450 | 1,523,889,500 | 5.00\% | 0.9699 | 0.00 |
| 2030 | 2032 | - | - | - | - | - | - |  | - |  | - | 4,176,650 | 11,339,900 | - |  | 15,516,550 | 1,600,083,975 | 5.00\% | 0.9697 | (0.00) |
| 2031 | 2033 | - | . | . |  | - | - |  |  |  | . | 7,905,550 | 8,389,500 |  |  | 16,295,050 | 1,680,088,174 | 5.00\% | 0.9699 | 0.00 |
| 2032 | 2034 | - | - | - |  |  |  |  |  |  | - | 17,108,288 |  |  |  | 17,108,288 | 1,764,092,583 | 5.00\% | 0.9698 | (0.00) |
| 2033 | 2035 | - | - | - | - | - | - | - | - | - | - | 17,962,438 | - | - |  | 17,962,438 | 1,852,297,212 | 5.00\% | 0.9697 | (0.00) |
| 2034 | 2036 | - | - | - |  | - | - |  | - |  | - | 18,864,625 |  |  |  | 18,864,625 | 1,944,912,072 | 5.00\% | 0.9699 | 0.00 |
| 2035 | 2037 | - | - | - | - | - | - | - | - | - | - | 19,808,000 | - | - | - | 19,808,000 | 2,042,157,676 | 5.00\% | 0.9700 | 0.00 |
| 2036 | 2038 |  |  |  |  |  |  |  |  |  |  | 20,694,750 |  |  |  | 20,694.750 | 2,144,265,560 | 5.00\% | 0.9651 | (0.00) |
| Total | From |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

(1) Rates based upon U.S. Treasury yields for July 14,2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$,
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$
(3) Rates based upon U.S. Treasury yields for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.
Taxable Series 2018 (Refunds
Series 2018 (Refunds 2008 Bonds) Series 2019 (Refunds 2010A Bonds)

## Par Amount of Refunded Bonds

Total Savings (Additional Cost)
\$3,020,000
\$42,335,000
\$8,024,483

Present Value (PV) Savings
$(810,137)$
$(3,173,362)$
$(2,138,026)$

Estimated PV Savings as \% of Refunded Bonds
69,564
3,292,187
$(490,432)$
$2.30 \%$
7.78\%
$-6.11 \%$


## Annual B\&I Tax Rate



$\overline{(1)}$ Rates based upon U.S. Treasury yields for July 14,2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated $\mathrm{TIC}=2.57 \%$.
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$.
(3) Assumes additional $0.75 \%$ due to CAB premium.

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.

Par Amount of Refunded Bonds

Total Savings (Additional Cost)
Present Value (PV) Savings
\$3,020,000
\$42,335,000

6,584,875

Estimated PV Savings as \% of Refunded Bonds
80,671
5,304,331
$2.67 \%$
12.53\%



LEVEL OVERALL DEBT SERVICE - CAPITAL APPRECIATION BONDS \$88M REFERENDUM WITH REFUNDING IN 2018 AND 2018 FOR SAVINGS ONLY

|  |  |  |  |  |  |  | Gener | ral Obligation B | Bonds Debt Serv |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Levy } \\ & \text { Year } \end{aligned}$ | Fiscal Year | Prior Debt Service | General Obligation School Bonds, Series 2008 (Net of Capitalized Interest) | General Obligation School Refunding Bonds, Series $\qquad$ | General <br> Obligation <br> School <br> Refunding Bonds, Series $\qquad$ | General <br> Obligation <br> Refunding <br> School Bonds, <br> Series 2012 | General <br> Obligation <br> Refunding <br> School Bonds, <br> Series 2013 | General <br> Obligation <br> Refunding <br> School Bonds, <br> Series 2014 | Proposed <br> Taxable <br> General <br> Obligation <br> School Bonds, <br> Series 2017 (1) | Proposed General Obligation Refunding School Bonds, Series 2018 [Est. Savings] $\qquad$ (2) | Proposed General Obligation School Building Capital Appreciation Bonds, Series $\qquad$ 2018 (3) | Proposed General Obligation Refunding School Bonds, Series 2019 [Est. Savings] (2) | $\begin{gathered} \begin{array}{c} \text { Supplemental } \\ \text { Lew } \end{array} \\ \hline \end{gathered}$ | Other, <br> Difference Due to Refundings or Capitalized Interest | Total | EAV | Growth Rate | B\& Tax Rate | Projected <br> Change in <br> B\&I Tax <br> Rate over <br> Prior Year |
| $\begin{aligned} & 2011 \\ & 2012 \\ & 2013 \\ & 2014 \\ & 2015 \end{aligned}$ | $\begin{aligned} & 2013 \\ & 2014 \\ & 2015 \\ & 2016 \\ & 2017 \end{aligned}$ | $\begin{array}{r} \$ \$ 18,208 \\ \mathbf{2 1 4 , 5 3 4} \\ 213,971 \\ \hline \end{array}$ | $\$ \quad 1,070,744$ <br> $\quad 941,313$ <br> $1,271,913$ <br> $1,661,513$ <br> $2,071,834$ | $\begin{array}{r} \$ 2,206,650 \\ 2,206,650 \\ 2,206,650 \\ 2,206,650 \\ 2,206,650 \\ \hline \end{array}$ |  | $\begin{array}{r} \$ 292,748 \\ \hline \quad 535,900 \\ \hline 534,700 \\ \hline 533,100 \\ \hline 531,100 \\ \hline \end{array}$ | $\$ \quad 473,638$ <br> 421,325 <br> 422,375 <br> 423,325 | \$ <br> - 146,313 <br> 146,013 |  |  |  |  | $\begin{array}{r} \hline \$-434,152 \\ \hline \\ \hline 434,152 \\ \hline \end{array}$ | $\$ \quad 2,142$ <br> 162 <br> $(5,000)$ | $1,000,493$ <br> $\$ \quad 4,806,348$ <br> $5,082,711$ <br> $5,309,102$ <br> $5,378,019$ | $\$ \quad 769,008,079$ <br> $-\quad 725,084,600$ <br> $-693,125,434$ <br> $705,345,722$ <br> $743,515,355$ | $\begin{gathered} \hline-8.76 \% \\ -5.71 \% \\ -4.41 \% \\ \hline .76 \% \\ 5.41 \% \end{gathered}$ | -0.5318 <br> -0.6629 <br> -0.7333 <br> -0.7655 <br> -0.7234 |  |
| 2016 | 2018 | - | 2,434,550 | 2,206,650 |  | 509,100 | 424,175 | 254,613 |  |  | - | - |  |  | 5,829,088 | 808,151,138 | 8.69\% | 0.7213 |  |
| 2017 | 2019 |  | 1,524,813 | 2,206,650 |  | 208,200 | 419,975 | 2,011,931 | 997,101 |  |  |  |  |  | 7,368,670 | 848,558,695 | 5.00\% | 0.8684 | 0.15 |
| 2018 | 2020 |  | 2,033,594 | 2,206,650 |  | 208,200 | 420,725 | 2,016,100 | 998,207 | $(27,319)$ | 5,210,000 |  |  |  | 13,066,157 | 890,986,630 | 5.00\% | 1.4665 | 0.60 |
| 2019 | 2021 |  | 932,806 | 2,206,650 |  | 208,200 | 3,189,600 | 903,350 | 998,988 | $(28,981)$ | 5,340,000 | $(685,075)$ |  |  | 13,065,538 | 935,535,961 | 5.00\% | 1.3966 | (0.07) |
| 2020 | 2022 |  | 216,038 | 2,206,650 |  | 208,200 | 5,492,813 |  | 997,562 | $(28,263)$ | 4,660,000 | $(686,300)$ |  |  | 13,066,700 | 982,312,759 | 5.00\% | 1.3302 | (0.07) |
| 2021 | 2023 |  |  | 4,348,900 | 2,000,000 | 2,418,100 | - |  | 243,048 |  | 4,740,000 | $(682,625)$ |  |  | 13,067,423 | 1,031,428,397 | 5.00\% | 1.2669 | (0.06) |
| 2022 | 2024 |  |  | 5,012,400 | 2,000,000 | 2,419,000 |  |  |  |  | 4,320,000 | $(684,150)$ |  |  | 13,067,250 | 1,082,999,817 | 5.00\% | 1.2066 | (0.06) |
| 2023 | 2025 |  |  | 8,267,894 | 2,000,000 |  |  |  |  |  | 3,480,000 | $(684,844)$ |  |  | 13,063,050 | 1,137,149,808 | 5.00\% | 1.1488 | (0.06) |
| 2024 | 2026 | - |  | 8,559,319 | 2,500,000 |  |  |  |  |  | 2,690,000 | $(684,894)$ |  |  | 13,064,425 | 1,194,007,298 | 5.00\% | 1.0942 | (0.05) |
| 2025 | 2027 | - |  | 9,045,450 | 3,000,000 |  |  |  |  |  | 1,705,000 | $(682,725)$ |  | - | 13,067,725 | 1,253,707,663 | 5.00\% | 1.0423 | (0.05) |
| 2026 | 2028 | - | - | 9,616,575 | 3,500,000 | - | - | - | - |  | 635,000 | $(685,175)$ |  | - | 13,066,400 | 1,316,393,046 | 5.00\% | 0.9926 | (0.05) |
| 2027 | 2029 | - |  | 6,534,375 | 4,500,000 |  |  |  |  |  | 2,715,000 | $(683,750)$ |  |  | 13,065,625 | 1,382,212,699 | 5.00\% | 0.9453 | (0.05) |
| 2028 | 2030 | - |  |  |  | - |  |  |  |  | 13,065,000 |  |  |  | 13,065,000 | 1,451,323,334 | 5.00\% | 0.9002 | (0.05) |
| 2029 | 2031 | - |  |  |  | - |  |  |  |  | 13,065,000 |  |  |  | 13,065,000 | 1,523,889,500 | 5.00\% | 0.8573 | (0.04) |
| 2030 | 2032 | - | - | - | - | - | - | - |  |  | 13,065,000 | - |  | - | 13,065,000 | 1,600,083,975 | 5.00\% | 0.8165 | (0.04) |
| 2031 | 2033 | - | - | - | - | - | - |  | - | - | 13,065,000 | - |  | - | 13,065,000 | 1,680,088,174 | 5.00\% | 0.7776 | (0.04) |
| 2032 | 2034 | - | - | - | - | - |  |  |  |  | 13,065,000 | - |  | - | 13,065,000 | 1,764,092,583 | 5.00\% | 0.7406 | (0.04) |
| 2033 | 2035 | - | - | - |  | - |  |  |  |  | 13,065,000 | - |  | - | 13,065,000 | 1,852,297,212 | 5.00\% | 0.7053 | (0.04) |
| 2034 | 2036 | - | - | - | - | - |  |  | - |  | 13,065,000 |  |  | - | 13,065,000 | 1,944,912,072 | 5.00\% | 0.6718 | (0.03) |
| 2035 | 2037 | - | - | - | - | - |  |  |  |  | 13,065,000 |  |  |  | 13,065,000 | 2,042,157,676 | 5.00\% | 0.6398 | (0.03) |
| 2036 | 2038 |  |  |  |  |  |  |  |  |  | 13,065,000 |  |  |  | 13,065,000 | 2,144,265,560 | 5.00\% | 0.6093 | (0.03) |
| Total Curr | From FY: | + | \$ 7,141,800 | \$ 62,418,163 | \$ 19,500,000 | \$ 6,179,000 | \$ 9,947,288 | \$ 5,185,994 | \$ 4,234,906 | \$ (84,563) | \$ 153,080,000 | \$ (6,159,538) | \$ | \$ - | \$ 261,443,050 |  |  |  |  |


(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$.
(3) Assumes additional $0.75 \%$ due to CAB premium.

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.

Par Amount of Refunded Bonds
Total Savings (Additional Cost)
Present Value (PV) Savings
80,671
5,235,920
Estimated PV Savings as \% of Refunded Bonds
2.67\%
12.37\%


## Existing GO Debt Service Payments

- Proposed Series 2017 WC Bonds
- Series 2018 Referendum Bonds - $\$ 88$ Million

■ Outstanding Bonds Issues Post 2018 \& 2019 Refundings
■ Series 2018 Refunding Bonds
■ Series 2019 Refunding Bonds


(1) Rates based upon U.S. Treasury yields for July 14, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$.
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$.
) Assumes additional $0.75 \%$ due to CAB premium.
NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.

## Series 2018 (Refunds 2008 Bonds) Series 2019 (Refunds 2010A Bonds)

Par Amount of Refunded Bonds
\$3,020,000
\$42,335,000
Total Savings (Additional Cost)
84,562
6,579,700
Present Value (PV) Savings
80,671
5,308,498
Estimated PV Savings as \% of Refunded Bonds
2.67\%
12.54\%



$\overline{(1)}$ Rates based upon U.S. Treasury yields for July 14, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$.
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$.

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.

## Series 2018 (Refunds 2008 Bonds) Series 2019 (Refunds 2010A Bonds)

Par Amount of Refunded Bonds
\$3,020,000
\$42,335,000
Total Savings (Additional Cost)
Present Value (PV) Savings
84,562
6,159,537

80,671
5,235,920
Estimated PV Savings as \% of Refunded Bonds
2.67\%
12.37\%
 \$88M REFERENDUM WITH REFUNDING IN 2018 AND 2018 FOR SAVINGS ONLY


(1) Rates based upon U.S. Treasury yields for July 14,2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$.
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$.

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds
Series 2018 (Refunds 2008 Bonds) Series 2019 (Refunds 2010A Bonds)

Par Amount of Refunded Bonds
Total Savings (Additional Cost)

Present Value (PV) Savings
62,332
3,984,205
Estimated PV Savings as \% of Refunded Bonds
2.06\%
9.41\%



(1) Rates based upon U.S. Treasury yields for July 14,2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.25 \%$. Estimated TIC $=2.57 \%$.
(2) Rates based upon the "AAA" MMD index for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus $0.75 \%$.
(3) Rates based upon U.S. Treasury yields for September 5, 2017 and recent bond sales which PMA believes to be accurate and reliable, plus 0.75

NOTE: Scenarios where a greater portion of the overall debt is issued in advance of the expenditures of the proceeds will likely result in higher fees earned by the manager of the debt proceeds.



## SUMMARY OF OPTIONS

Capital Appreciation Bonds

## Final Maturity (Levy Year)

## Total Debt Service Cost

Change in Tax Rate in Levy Year 2018 Impact on $\mathbf{\$ 2 0 0 , 0 0 0}$ Market Value Home


| Level Total | Level Total |
| :--- | :--- |
| Debt Service | Level B\&I Rate |
| Debt Service | Level B\&I Rate |


|  | No | No | Yes | Yes |
| ---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 0 2 7}$ | 2036 | 2036 |  | 2036 |$c 2036$

\$88 Million Referendum Scenarios

\left.| \$88 Million Referendum Scenarios |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Option |  |  |  |  |  |$\right]$


| Level Total <br> Debt Service |  |  |  |  | Level Total B\&I Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | | Lebt Service Total |
| :---: | :---: | :---: | :---: | :---: | Level B\&I Rate | Level Service |
| :---: | Level B\&I Rate

\$ 257,402,325 \$277,314,303 \$261,443,050 \$280,533,050 \$269,855,475 \$ 286,667,570

| 0.57 | 0.11 | 0.60 | 0.12 | 0.36 | $(0.02)$ |
| ---: | ---: | ---: | ---: | ---: | ---: |
| 348.58 | 65.92 | 362.85 | 71.09 | 219.28 | $(13.48)$ |

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[^0]:    17-05-11 Updated Cohort Projections - Base Model.xIsx

