Goal:
To discuss and understand the main drivers of cost in the School Building and Community Center projects, as well as to try and identify which concepts seem to have the best overall long-term value for Lincoln. We understand the projects are at the concept phase and thus we will try to focus on the higher-level aspects. We recognize that some questions below are covered by materials already posted online, but we appreciate your patience in comprehensively reviewing the cost-oriented information to make sure all attendees of this meeting are on the “same page”.

We are, of course, interested in CapComm’s questions as well, and we have tried not to duplicate them here.

School project

Factors that are driving the size (i.e. square footage) of the concepts

1. What are the enrollment projections, long-term enrollment assumptions, class size, and other metrics/assumptions being used for sizing and capacity planning?

- Enrollment projections are carried out on an annual basis in order to determine the number of class sections we will need to build into the school budget for the upcoming fiscal year. In order to do this, a cohort analysis is carried out and census information is gathered to determine potential preschool and kindergarten enrollment.

- For all MA school districts, the state considers enrollment on October 1 of each school year as the official enrollment for that school year. To make an enrollment projection for the Lincoln School building project, we gathered the October 1 enrollment data from October 2000 through October 2017 (See below). During this time, K-8 enrollment has ranged from our current low of 544 to a high in 2002–2003 of 732 students.

- The essential program for the building project plans for an enrollment of 660 students, including preschool, which is not represented in the longitudinal enrollment data provided below. We anticipate approximately 36 preschool students will attend the Lincoln School, if included in the new building. The average enrollment, not including preschool, from October 2000 to October 2018 is 643 students. Adding 36 preschool children makes the essential program projection of 660 a low assumption for potential enrollment over a twenty year period. The essential program includes three fewer classrooms than our current building, which represents a decrease in the capacity of the school and reflects the lower enrollment over the past ten years.
## Class Size Policy

<table>
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<th>K</th>
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<td><strong>Recommended Class Size</strong></td>
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<tr>
<td><strong>Maximum Class Size</strong></td>
<td>20</td>
<td>22</td>
<td>23</td>
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<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
</tbody>
</table>

In grades 6-8, the average class size may not exceed 24, except with the approval of the School Committee, at the recommendation of the Superintendent, to provide for special circumstances.

For grades K-5, this policy establishes recommended average class sizes, which may not be exceeded, both as specified below and with the approval of the School Committee:

- A given cohort of students may only exceed the recommended average class size a total of two times during grades K-5, and then by not more than 2 students (as measured by the average class size for the cohort, not by individual classrooms).
- If a cohort has exceeded the recommended average class size two times, and is projected to exceed it a third time, the Superintendent must add, and the School Committee must fund in the Base Budget, another section of the grade for that cohort.
- A determination of whether or not a grade has exceeded the recommended class size will be based on the enrollment figures reported to the Department of Education on October 1st.

In no case can the average class size of a K-5 grade exceed the recommended average size for that grade plus two students.

This policy does not preclude the Superintendent from recommending, nor the School Committee from approving, smaller class sizes that the largest ones permitted by this policy, when it is believed that smaller classes will better meet the learning needs of a particular cohort of students. It is also important to note that individual class sizes within a grade may vary at the discretion of the Principals, provided that the average class size does not exceed the recommended class size in grades K-5 (except as described above), or the maximum in grades 6-8.
<table>
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<tr>
<th>Year</th>
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<th>METCO</th>
<th>Employee</th>
<th>CASE</th>
<th>Total</th>
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<td>2000-2001</td>
<td>617 (1)</td>
<td>89</td>
<td>4</td>
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<td>2001-2002</td>
<td>615 (5)</td>
<td>91</td>
<td>4</td>
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<td>2002-2003</td>
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<td>2008-2009</td>
<td>536 (8)</td>
<td>91</td>
<td>6</td>
<td>10</td>
<td>643</td>
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<td>2009-2010</td>
<td>504 (3)</td>
<td>91</td>
<td>17</td>
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<td>622</td>
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<td>2010-2011</td>
<td>505 (3)</td>
<td>84</td>
<td>16</td>
<td>6</td>
<td>611</td>
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<td>2011-2012</td>
<td>503 (6)</td>
<td>91</td>
<td>15</td>
<td>6</td>
<td>615</td>
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<tr>
<td>2012-2013</td>
<td>496 (4)</td>
<td>91</td>
<td>15</td>
<td>6</td>
<td>608</td>
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<td>481 (1)</td>
<td>88</td>
<td>26</td>
<td>7</td>
<td>602</td>
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<tr>
<td>2014 - 2015</td>
<td>481 (4)</td>
<td>86</td>
<td>23</td>
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<tr>
<td>2015 - 2016</td>
<td>470 (5)</td>
<td>88</td>
<td>32</td>
<td>6</td>
<td>602</td>
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<tr>
<td>2016 - 2017</td>
<td>461 (4)</td>
<td>89</td>
<td>23</td>
<td>4</td>
<td>582</td>
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<tr>
<td>2017-2018</td>
<td>435 (6)</td>
<td>84</td>
<td>16</td>
<td>3</td>
<td>544</td>
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</table>

* ( ) = the number of outside placements included in Resident students
2. Is there a set of such assumptions worth considering that would lead to a smaller school building, perhaps with cost effective options for expansion later?

The building size is based upon student enrollment, projected class sizes and the educational program developed by the School District. The School Administration went through an extensive educational programming exercise to arrive at the current options and their sizes. The School Administration has been very sensitive to the correlation between school size and project cost and has pared down the initial desired (optimal) program to those spaces that were deemed “essential,” from which the L2, L3 and C Options are based. These options reduce the total number of classrooms to three less than the current building.

3. What assumptions or guidelines are you following for how many sqft/student are being proposed for each type of space (i.e. classroom vs gym vs cafeteria etc) in the concepts?

The educational programming and planning process commenced utilizing the MSBA space guidelines for sizing of spaces. Existing spaces that were educationally appropriate to remain in their current locations generally remained the same size (with potential minor variations depending upon the specific option). The Hub spaces were originally planned to match the Hanscom school model, but subsequently reduced in size as part of the essential program discussion. Pre K classrooms have been sized based on the MSBA guidelines. The Commons space (cafeteria dining) in the MSBA guidelines is sized for three seatings (slightly smaller size) but in the case of a combined Elementary and Middle School, a two seating scenario is very desirable and for this project, the Commons has been sized for two seatings. The MSBA guidelines indicate only one gymnasium for a project of this size – but due to schedule challenges, their history on the site and the benefits of community use, two gyms are included in the project. The MSBA guidelines do not include Auditorium spaces for elementary schools.

4. How do such assumptions or guidelines differ (if at all) from other comparable projects and MSBA guidelines?

The Lincoln School project is consistent with MSBA guidelines.

5. How does the overall sqft / student of these concepts compare to comparable projects?

Project size is comparable to other projects by the SMMA and Ewing Cole teams. It is less than the Hanscom School.

6. If higher, what elements of the concepts primarily cause the higher square footage?

The second gymnasium, Auditorium, Hubs, slightly larger cafeteria, longer corridors of the existing and “L” shaped footprint are areas which increase the total building area.

7. What are the approximate incremental costs for each of those elements?

<table>
<thead>
<tr>
<th>Element</th>
<th>SQF</th>
<th>PSF</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>New second Gymnasium:</td>
<td>6,905</td>
<td>$585</td>
<td>$4.04 M*</td>
</tr>
<tr>
<td>OR Renovation to Smith Gym:</td>
<td>6,905</td>
<td>$340</td>
<td>$2.35 M*</td>
</tr>
<tr>
<td>Auditorium Renovation:</td>
<td>8,299</td>
<td>$340</td>
<td>$2.82 M*</td>
</tr>
<tr>
<td>Hubs (Grades 3-8 only):</td>
<td>7,140</td>
<td>$585</td>
<td>$4.17 M*</td>
</tr>
<tr>
<td>Corridors:</td>
<td></td>
<td></td>
<td>Indeterminate at this stage</td>
</tr>
</tbody>
</table>
8. And how might that extra cost be justified by residents?

The community has used the existing auditorium and gymnasium spaces heavily over the many decades of their existence, and each option preserves and extends that usage for decades more to come. The Hub spaces provide extended learning areas that foster collaboration, small and large group teaching and project-based learning.

9. Of our comparable communities that have recently done school building projects on existing K-8 buildings, which chose more comprehensive renovations & built more new structure, and which chose less comprehensive renovations & more repair?

K-8 is now a relatively rare grade configuration and not used by surrounding towns. Belmont, Weston and Lexington have each had an elementary school project since 2010.
   - Belmont Wellington Elementary School. All New Construction.
   - Weston Field Elementary School. All New Construction.
   - Lexington Estabrook Elementary School. All New Construction.
The factors that lead a decision towards renovation or new construction can be very complicated. The general age, condition, building system functionality, and size can be key factors.

Brookline, which has a K-8 model, is currently underway with an addition to the Devotion School which preserved only a small historic section of the building. The cost of this project is approximately $100 million.

Devotion School Brookline. Note modest re-use of existing building and extensive new additions.

See Question 22 for additional information.

10. Which comparable projects has the committee (or a portion) visited, and what’s the qualitative assessment of each?

The Committee visited Andover Bancroft Elementary, Scituate Gates Middle and Hanscom Middle Schools.
• Bancroft Elementary. New Construction. The hub space equivalent were considered too small to be truly functional or effective.
• Gates Middle. New (Middle School) Construction added to adjacent High School. The hub spaces and teaming spaces were identified as functionally useful, advantageous and attractive spaces.
• Hanscom School. New Construction. The hub spaces were identified as being appropriate and serve the educational needs well.

Factors that are driving the cost per square foot of the concepts

11. We understand that the projected cost estimates use various $/sqft costs for different spaces in each concept depending on how much renovation vs new construction is involved. Please review the levels of $/sqft costs used, and describe how they compare to comparable projects.

SMMA and Daedalus did an extensive survey of the current school and made a complete assessment of how much work would be necessary to renovate each section of the school. For purposes of cost estimating, the sections of the school were then classified as needing Modest Renovation, Medium Renovation, or Heavy Renovation. So, for instance, the design team has made the judgment that in any concept in which we retain the 1994 Smith Addition, that space (8518 square feet) would need modest renovation. The square foot cost for modest renovation, derived from other current school projects in Massachusetts and escalated to the likely construction timeframe for the Lincoln project, is $250, so the conceptual cost for the renovation of the 1994 Smith Addition is $2,129,500. The conceptual cost for Medium Renovation is $300 per square foot, and this would apply to the Reed Gym Locker Rooms, the 1955 Second Grade Wing, and the 1953 Smith Addition. The conceptual cost for Heavy Renovation is $500 per square foot — this applies only in very limited cases, as new construction would be less expensive than this level of renovation.

12. We understand that costs of recent MSBA school building projects were used to determine some of the cost estimates for our projects, and that the inflation implicit in the MSBA data is approximately 6.9%/year for 2013-2020, i.e. roughly the time period between when we had hoped to start construction on the 2012 project vs when we hope to start this project. What factors are driving this high rate of inflation?

Yes, the estimate database used encompasses all building types. But yes, MSBA and Non-MSBA school projects are exceeding the current rate of inflation for the general economy. This is primarily due to the limited pool of available contractors and sub-contractors willing to perform public projects, along with prevailing wage increases of 2-3% per year.

13. As shown here, the RLB Construction Cost Report - Boston shows a much lower inflation rate (~3%) than implied by the MSBA data. Why is that, and does it have any relevance or implications for our project?

There are other Cost Reports which show different results. For example, see Attachment A from ENR Magazine which indicates a 3.9%+ rate of inflation. Schools are a more expensive building type (See answer to Question 8).

14. How close is the mix of elements in our proposed concepts to the mix in recent MSBA projects? How valid is the pricing data from those MSBA projects for our estimation purposes, and is it the best available choice? If used, is any adjustment to the MSBA pricing appropriate?
The proposed program/mix of elements is similar to an MSBA-funded project. The pricing data for MSBA projects is valid as the building types are the same. No adjustments to the MSBA pricing is appropriate.
In a typical MSBA elementary or middle school with this design enrollment, a second gym nor an auditorium would be included.

15. What escalation rate are you using to inflate costs to the targeted start year, and if lower than the past inflation rate observed, why?

An escalation rate of 5% per year is being used with a projected Spring of 2020 start date. It is simply a guess, no one really knows what the future rate will be.

16. What is the “design and pricing contingency” cost, and how does the rate (10% of total construction costs) used in your cost estimation compare to comparable projects?

A 10% design and pricing contingency is comparable for other projects at a conceptual level of design. It is to cover development of additional detail in the design.

17. What are included in “soft costs”, and how does the rate (i.e. 24%) and base of calculation (i.e. total of construction costs plus escalation and temporary space costs) used in your cost estimation compare with comparable projects?

The following are included in Soft Costs:
- Administration Costs
- Legal Fees
- Owners Project Manager Fees
- Advertising and Printing
- Permitting
- Owners Insurance
- Other Administration Costs
- Architectural fees
- Reimbursable Services
- Hazardous Materials
- Geotech & Environmental
- Site Survey
- Wetlands flagging and studies
- Traffic Studies
- Other Reimbursable Costs
- Utility Company Fees
- Construction Testing Services
- Commissioning Costs
- Swing Space/Modulars/Temp Relocation
- Moving Costs
- Furniture & Equipment
- Computer Equipment
- Soft cost contingency
- Construction Contingency

18. I would like to get a bit more clarity about the value of the items that the Full Program Concept has that the others do not. Namely - E classrooms, Optimal Square Footage and Hubs Spaces.
Three Additional Classrooms, Hubs at all Grade levels

19. Are there differences in expected life between the options? When will the next major renovation be expected for each option?

Comprehensive addition and renovation projects where all new systems are provided would be considered at least a 50 year building – HVAC and major equipment items are generally considered to have a service life of 30-35 years. Roofs have a 25-30 year service life.

The Repair Only option will require ongoing and immediate updates depending upon individual systems life expectancy.

20. What are the total estimated costs projected to build, finance and operate (maintenance, repairs & capital replacements) for each of the current concepts for the entire stated 30 year bonded or projected lifetime of the school. This should include a separate line for the potential modifications of the buildings for energy enhancements, and to meet changing educational programmatic and capacity needs.

See Question 24.

21. Do we have a simple 1 page table or bar graph that shows the comparative additive costs and benefits of the various building concepts starting at the repair at $49M adding each of the higher cost versions over that minimum base.

See previous SMMA presentations and concept handouts from Community Forum #4 on 4/10/2018
See Attachment C – Comparison of Campus Project Concepts

22. School: cost per sqft is high. What are comparable new school buildings (comped to MA, community size, school program) and what is their cost/sqft? Which Lincoln project plan does each comp most closely parallel? What is your qualitative assessment of those good comps, assuming you have visited?

Belmont Wellington Elementary School. All New Construction. $313/sf completed in 2010
Weston Field Elementary School. All New Construction. $375/sf completed in 2013
Lexington Estabrook Elementary School. All New Construction. $357/sf completed in 2013
Andover Bancroft Elementary School. All New Construction. $375/sf completed in 2013
Scituate Gates Middle School. New Construction. $319/sf completed in 2016

Some Schematic Design estimates for projects of similar enrollment:
Quincy Sterling Middle. All New Construction. 430 enrollment. $486/sf. Estimated 2016
Lynn Pickering Middle. All New Construction. 652 enrollment, $508/sf. Estimated 2017
Millis Brown Elementary. All New Construction. 515 enrollment. $474/sf. Estimate 2017
Taunton Mulcahey Elementary. All New Construction. 735 enrollment. $418/sf. Estimated 2018

Below is a link to the MSBA web site of their Cost Data Chart. It is interactive and should be looked at online:

http://info.massschoolbuildings.org/TabPub/TableauCostData.aspx
23. School: let’s look at comparable communities from the other direction. Of our comparable communities that have recently done school building projects on existing K-8 buildings, which chose more comprehensive renovations/built more new structure, and which chose less comprehensive renovations/more repair?

See Question 9.

Operations and Maintenance Costs [mostly covered by CapComm Questions]

24. What are the incremental costs for each of the different energy efficiency approaches being considered, what are the associated present value of expected energy costs for each of those approaches, and how do they compare to the current energy costs?

Please see the three following graphs. Energy costs are shown in blue for each design, incremental costs are shown in green and purple for solar, with bond interest in red and pink. (All included in Maclay’s Draft Report dated 4/12/2018)

*This is comparable to L2:*
This is comparable to L3:
Using the same fuel escalation for the existing building - the 30-year energy cost is $8.64 million. This does not include any maintenance, replacement, etc. it is only the cost of energy (natural gas and electricity) based on the prices and amount from Buckner Creel as the starting point and 2% inflation per year.

Additional analysis is needed to determine what the town would have to pay to keep the existing building operating over the 30 years and be able to fully compare with the new building designs.

25. **What are the expected differences in maintenance costs for the different options? Which features are driving differences in maintenance costs?**

All of the options result in a renewal of interior and exterior finishes, with a resultant decrease in initial maintenance. Unknowns at this point in project development are the costs of solar array maintenance and the costs of asphalt surface maintenance after the first three years. We anticipate some reduction in the annual project and repair maintenance costs associated with the Lincoln School, but expect that the operating costs will remain approximately the same.

**Option R**

- **Drivers:**
  - Smith boilers still in the basement; subject to damage from flooding
  - Operating two boiler rooms each with pumps
  - Operate current two kitchens – feed in gyms
  - Custodial costs the same
- **Expected differences:**
  - Maintenance warrant for first ten years reduced by $40,000
  - Small cost reduction in custodial supplies ($2-3K)
  - Decrease in utility costs from existing condition

**Option L1**

- **Drivers:**
  - Operate only one boiler plant (three condensing boilers)
  - Operate current two new kitchens – feed in two small commons

- **Expected differences:**
  - Kitchen decrease in refrig/freezer maint costs
  - Kitchen increase for duct cleaning
  - Maintenance warrant for first ten years decreased by $50,000
  - Operating maintenance decreases by $20K
  - Small increase in utility costs from Option R

**Options L2 & L3**

- **Drivers:**
  - Operate only one boiler plant (three condensing boilers)
  - Operate current single kitchen – feed in single commons

- **Expected differences:**
  - Maintenance warrant for first ten years decreased by $50,000
  - Operating maintenance decreases by $20K
  - Cost reduction in custodial supplies ($2-3K)
  - Decrease of $4k in waste trash removal
  - Small increase in utility costs from Option L1

**Option C**

- **Drivers:**
  - Operate only one boiler plant (three condensing boilers)
  - Operate current single kitchen – feed in single commons

- **Expected differences:**
  - Possibility of reduction in part-time custodian
  - Maintenance warrant for first ten years decreased by $60,000
  - Operating maintenance decreases by $20K
  - Cost reduction in custodial supplies ($2-3K)
  - Decrease of $4k in waste trash removal
  - Small increase in utility costs from Option L1
  - Elevator maintenance costs of $5K
  - Grounds mowing increase – extra field

26. Which features are driving differences in maintenance costs?

In the “L Shaped” schemes, the extended footprint and square footage are contributing factors. The less comprehensive the renovations, the more repairs and maintenance will be required over time.
General Questions

27. In previous project attempts, some residents expressed concern about the restrictions & limitations imposed by the MBSA. Given that we are proceeding without the MSBA, what freedoms are we enjoying by doing the project ourselves? In particular, for each concept, please highlight aspects (if any) that would have been subject to MSBA restrictions if this was an MSBA project, and discuss the costs and benefits resulting from those deviations.

The inclusion of the auditorium, a second gymnasium, a larger Commons (cafeteria dining) space, Hub spaces are all benefits of proceeding locally. While these spaces may not be subject to restrictions by MSBA, they are not included in the MSBA guidelines for elementary and middle schools. Each would have to be fully vetted during the Educational Planning/Feasibility phase (current phase), we see no reason for any of the spaces in the project to be rejected out of hand but certainly subject to negotiation for reimbursement.

28. Please summarize feedback the SBC has received from the community on costs and budget.

The SBC has gathered feedback from the community a number of times since its inception last summer. Overall, when participants in public meetings have been asked, there has been strong indication that people support a concept that maximizes the educational program and sustainability. Questions about cost have been raised in the feedback, and also have been raised through venues such as LincolnTalk and personal conversations, the latter of which are difficult to quantify. All formal feedback and comments can be found in the following places:


Town Meeting Campus Layouts Feedback:
- Overall Results: https://lincolnsbc.org/town-meeting-wrap-up/


29. What is the expected schedule of payments owed by the Town in projects of this size?

See Attachment C – Projected Cash Flow

30. How long is the project likely to take to complete, and is there any significant difference in expected time needed for the different concepts?

“L Shaped” Options are assumed to be constructed in ~ 36 months and the C option in 32 months. See SMMA’s SBC presentation from 2/13/2018 for preliminary construction phasing for each option.

31. On all the concept options, for the energy efficiency options 4+5, the adjusted construction costs + soft costs do not add up to the total project costs shown. The missing amounts vary from $19,000 up to $2mil.

This has been corrected, see attached revised cost estimates.
32. On Option A3.4, the total project costs shown for energy efficiency options 3, 4 + 5 do not match the total project costs shown in the full cost bar charts on pages 1-3. They differ by $100-200k.

   This has been corrected, see attached revised cost estimates.

33. On Option B6.1, the line items for Windows and Foundation Additions do not match the difference between Column 3 and Column 4-5 incremental costs. They are off by about $50k and $96k respectively.

   This has been corrected, see attached revised cost estimates.

**Questions for Both Projects**

34. Please identify any possible differences in the cost of the projects that might result from doing both School Building and Community Center projects together versus doing them separately.

   We recommend keeping the School and Community Center as two separate projects because they will take different amounts of time to design and then different construction durations. There would be no significant efficiency in combining the projects, in our opinion.

**Attachments**

Attachment A: ENR Magazine Cost Indexes dated April 2018
Attachment B: Comparison of Campus Project Concepts
Attachment C: Projected Cash Flow
Community Center

What stats, metrics, projections, and assumptions are being used for capacity planning to drive the design? (population, usage, etc.)

How do comparable community center projects compare in sqft/resident, size, population served, and/or other relevant metrics?

What are the projected cost estimates in $/sf terms, and what is the source for those cost estimates? Do they vary by the type and mix of space proposed?

How do the cost estimates compare with comparable projects? Where the cost metrics deviate materially from each comparable, identify the key drivers of the deviation.

What are the best estimates for long-term energy costs? Are there plans to consider energy efficiency approaches, and if so, what are the expected incremental costs and energy savings?

What are the best estimates for long-term operating and maintenance costs? What's the best estimate for marginal increases or savings relative to current operating and maintenance costs (i.e. for COA in Bemis and PRD in Hartwell)?

What is the expected change (if any) in maintenance and operating costs for Bemis once COA departs?

After construction and occupancy, what will be the first expected major capital maintenance/repair items? What's the expected timing?

Please summarize feedback the PPDC has received from the community on costs and budget.