

VILLAGE
of Bellerose

Infrastructure Improvements Proposal

As Bellerose Village moves further into the 21st century, it continues to face challenges that need to be met in order to insure the high level of aesthetic beauty its residents have become accustomed to. The previous plans presented address the long term goals of the Village and provide a strategic direction to provide guidance as to the general direction the Village should take. An important aspect of any long term strategy is the prioritization and tactical tasks that will be necessary in order to accomplish the long term goals. As I have spoken to residents, three primary topics remain prominent in any conversations and they are as follows:

1 – Superior Road Flooding – residents familiar with the situation and especially those on Superior Road have long been dealing with flooding anytime a significant amount of rain falls in a short period of time.

2 – Curbing – any residents without some sort of curbing in front of their home, place it as a high priority. Curbing contributes greatly to the overall appearance of the Village and its homes.

3 – Street Paving – many of the streets have become a patchwork of sections of asphalt with many bumps and holes. The asphalt itself has become old and faded. There is nothing more appealing than a freshly paved street to give the block a fresh new appearance.

These 3 topics continually come up as areas that should be addressed and if they were would breathe new life into the Village. I believe we should level the playing field in all areas of the Village in so much that each street should be brought up to the same level of repair. I believe it would be difficult to justify doing any new work with a cosmetic component on Commonwealth, or any other street, prior to fixing the flooding problem on Superior. Let's bring the entire Village up to a level where we would have a good foundation to build upon while addressing the most important issues at the same time.

WHAT - as stated above three areas need to be addressed to remedy the most pressing issues.

Superior Road Flooding – this will be solved by a combination of things. Of course better drainage will be needed on Superior Road itself. This can be accomplished by insuring the current drains are maintained properly and cleaned on a regular basis. Installation of additional basins may also be necessary. Runoff patterns need to be studied to see where the Superior Road flood water is originating and then increase the drainage capacity there as well. One area would be on Commonwealth where a good bit of water flows towards Superior due to the lack of drainage. The time should be taken at this point to identify any additional potential flooding zones and plan for their resolution as well.

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Curbing – any homes without curbing would be identified and a schedule would be created for installation of the new curbing. Due to the extent of curbing necessary, residents would be offered the opportunity to split the cost with the Village if they would wish to have the curbing installed more quickly. The installation schedule would be based on the areas most in need of the curbing but residents paying 50% of the curbing cost would be allowed to install the curbing as soon as could be arranged.

Street Paving – all streets in the Village would be completely repaved. Over the years the combination of utility fixes and pot hole repair have turned our streets into a patchwork of asphalt which makes for bumpy rides through the Village as well as an aesthetically unpleasant view. The street paving would be coordinated with the other repair activities so that it would be the last task done to finish off the refurbishment of the block.

WHERE – this section will define where each repair needs to take place.

Street Paving – this one is simple. Every street will be repaved which will include milling to bring the streets back down to their original grades. This will be done in coordination with curbing and apron repair to insure the proper finish and grading once all aspects of the project have been completed. Each street will be evaluated and those requiring the greatest work would be done first.

Curbing – the ultimate goal would be to have consistent complete curbing throughout the Village whether it would be concrete or block. An analysis would be done as to what would be the most durable as well as cost efficient and then that would be the standard installed throughout. The installation of curbing would need to be coordinated with the other infrastructure projects to insure proper completion.

Flooding – since catch basin installation and repair require the excavation of the roadways, this would be addressed first. Upon seeing results of the flooding study, locations for new catch basins would be determined and installed. This in conjunction with proper maintenance of the current catch basins should begin to alleviate the flooding issues.

Cost – this section will address the potential cost of undertaking these improvements.

Cost is of course one of the primary considerations when undertaking any project. There are many ways to address cost factors but the primary goal is to maximize value while minimizing the cost. The cost of this infrastructure revitalization project will be significant, but with proper planning the financing can be obtained without hardship to the Village. The numbers presented here are approximate in an effort to give a ballpark figure of what would be necessary. More formal estimates would be obtained when a plan with greater detail is scoped out.

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Curbing

Most of the Village is without curbing. This causes street erosion, standing puddles, health hazards, and aesthetic concerns.

- Assume 350 homes at 50' of curbing per home = 17,500' of curbing needed.
- We were quoted \$25 per foot but let's assume \$20 in volume so at \$20 per foot we need \$350,000 to install curbing throughout Village
- Assume it is done over 5 years, meaning we need \$70,000 per year in present value dollars.
- Where to start? any streets with good slope so water runoff is not an issue – Delaware, Boston, Virginia, parts of Huron Rd. Again any residents wishing to contribute to the cost of the project in front of their home would be put to the top of the installation list.

Project Duration : 5 years

Total Cost: \$350,000

Annual Cost: \$70,000

Flooding

- Assume 10 catch basins need repair at \$1,000 each = \$10,000.
- Assume 5 catch basins need replacement at \$2500 each = \$12,500.
- Add 25% contingency to cover digging and replacement of crossover / overflow pipes between basins = \$4,500.
- Assume new catch basins on Commonwealth to help limit the amount of water that flows towards Superior causing flooding. Let's assume 2 additional at a cost of 4,000 each.

Project Duration: 1 year and then maintenance after

Total Cost: \$35,000

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Street Repaving

This discussion is predicated on milling the sides of the streets 3' feet out from the curbs, i.e. removing the present asphalt along the curbs, carting it away, and then re-paving / re-surfacing the street. This procedure keeps the street from getting higher than the adjacent curbing / aprons.

- Assume 3.1 miles of roads in Bellerose and assume 40' width = 654,720 sq ft
- 1 ton of asphalt covers 120 sq ft, 1 inch thick so we need 5,456 tons of asphalt to re-surface entire Village.
- Asphalt currently costs \$82 per ton Nassau County price to purchase so we need **\$477,392** to purchase the asphalt for the entire Village.
- Current labor price is \$38 per ton to pick up and install asphalt so we need **\$207,328** for labor to pick up and install asphalt for the entire Village.
- Milling is \$10 per square yard which at 3.1 miles of streets, 3' from the curb, on both sides of the streets = 10,912 square yards = **\$109,120** including carting away the milled asphalt.
- Total cost = **\$727,840** to properly re-surface / re-pave the entire Village in present value dollars.
- Assume 12 year average life – some streets with traffic might be less, some dead ends might be more.

This means we need **\$60,650** per year in present value dollars over 12 years.

Project Duration: 12 year

Total Cost: \$727,840

Annual Cost: \$60,650 paid over 12 years

Removing Standing Water

There are a number of locations on our streets where the natural slope of the road has been interrupted by tree roots pushing up the roadway, restricting the water runoff into catch basins. Assuming we can correct the condition without killing the trees, the approach is to mill the roadway down to substrate, dig away some substrate, and then re-pave with proper pitch.

- Given at least 4 such locations, a reasonable estimate is \$7,500.

Project Duration: 1 year

Total Cost: \$7500

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Cost Summary

Curbing

Total Cost: \$350,000

Annual Cost: \$70,000 for 5 years

Flooding

Total Cost: \$35,000

Street Paving

Total Cost: \$727,840

Annual Cost: \$60,650 paid over 12 years

Standing Water

Project Duration: 1 year

Total Cost: \$7,500

Total Approximate Infrastructure Restoration Cost

\$1,120,340.00

Projects Schedule

Let's assume we can secure favorable financing and once we get the proper preparation work done with regards to specifications and project plans we can begin. Here is a very high level as to cost and benefits received.

Year 1

Flooding and Standing water projects completed. Curbing begun.

Year 2 – Year 4

Curbing continues. Street paving begins

Year 5

Curbing Completed. Street paving continues.

Year 6 – Year 12

Street paving Continues

Year 12

Street Paving completed.

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FINANCING

In order to do all these projects, which are the bare essentials to keep the basic infrastructure where it needs to be, would cost an estimated **\$1,120,340.00**. This is a rough estimate but it does show the type of commitment just to bring the Village back to its basic beautiful level. I for one think there would be great value in undertaking these projects to restore the solid foundation from which all other enhancements can be built upon.

The next question, of course would be the financing of such projects. The advantage the Village does have now is that it is relatively debt free and would be able to sustain paying back a bond or other type of financial instrument. Grants and other government aid programs would be looked in to as well in an effort to minimize the amount of debt ensued directly by the Village. I believe we could utilize Federal Stimulus money since these are exactly the types of projects that the stimulus is supposed to be directed at. I make this proposal in an effort to illicit feedback from residents as to whether or not this is something that should be pursued. I believe it is necessary to pursue as quickly as possible since ignoring basic needs now will only make for larger bills in the future. Investing in our own Village is well worth the cost and can only make for a consistent, strong more beautiful Village as these projects are completed. Please let me know what you think by sending me an email to trustee_murphy@bellerosevillage.org.

Note: This document was done in cooperation with Highway Commissioner George Braun.