

**Phillips Drive Drainage Issues
Tuesday, March 27, 2018, 7pm
Senior Center**

Meeting Minutes

I Presentation by Jon-Eric White, City Engineer

Mr. White chaired the meeting and provided the following highlights, taken straight from the Engineering Division's Evaluation Report dated January 2018, and presented as a slideshow:

- The Evaluation Report and Recommended Solutions summarize the flooding problems that exist in the Phillips Drive neighborhood, which includes Drew Street, Sullivan Drive, and Ryan Road.
- The Report is in response to the neighborhood's written report to Mayor Holaday last June.
- The City has performed site inspections, cleaned existing drain pipes, videotaped drain pipes, reviewed historical data, performed hydrologic and hydraulic modeling calculations, and came up with the most logical solutions to mitigate the damage being caused by the flooding.
- The Engineering Division is done with performing studies. It's clear that the Cherry Hill Subdivision has changed the groundwater conditions into this neighborhood and has likely added to it, but it makes no sense to continue evaluating exactly how much changed.
- The flooding problems falls into 3 categories: 1) high groundwater, 2) surface flooding issues, and, 3) deteriorating roads.
- Mr. White summarized the common problems as stated in the Evaluation Report – Common Problems 1 thru 4. He emphasized that any resident that has basement flooding problems should install a perimeter drain around their home and tie it into the main drain line that'll be installed under this project. He said the main drain line will be designed deeper than normal in order to allow the perimeter drains could drain into them in order to eliminate the need for pumping.
- Mr. White did not go over the Responses to Remaining Comments and stated that if any resident has any questions or concerns with the Report's responses to their specific concerns, to contact him direct.
- Mr. White discussed the proposed solutions and suggested construction phasing, taken straight from the Evaluation Report.
 - He discussed Sheets C-3 and C-4, Conceptual Improvements Phase I and II, as provided in the Report.
 - Phase I is the "bottom of the hill" section which must be done first because the drainage systems must be enlarged in order to collect the upstream Phase II drainage.

II Public Discussion:

- Mr. Cootey, 22 Phillips, emphasized the urgency of fixing the ice dam in the middle of Phillips Drive near #19 and how dangerous it is. Mr. Amaral, City DPS Deputy Director, responded that it'll be done this summer and he discussed the details of installing a perforated subdrain pipe.
- Todd Atanasoff, 37 Phillips, questioned the lines in his backyard as shown on the Conceptual Improvements Plan. Mr. White explained that it's a proposed swale as well as a new larger pipe. Discussion continued and it was decided that the swale should be located on the other side of the house and that maybe a new pipe is not warranted.

- It was also determined that the proposed swale between #24 and #26 Phillips should be relocated between #26 and #28, which is where the flows currently go now.
- Ms. Welch, 6 Drew, explained how their backyard has been impacted by past drainage problems and that our proposed improvements may not fix it. Mr. White felt that the proposed swale between her house and #4 Drew could be designed to improve her backyard but he stopped short of details and said he felt confident that it can be handled during final design.
- Concerns over the type of grassed swale were common. Mayor Holaday requested that a graphic of a grassed swale be uploaded onto the City's website.
- Mr. White noted that the current proposed solutions are conceptual and that the public will be involved during the design phase and requested that they stay involved and work with the engineer during that time.
- A question was asked if the new roadways will have asphalt curb or granite and if the pavement will be overlaid or ripped out. Mr. White said most likely granite because it's far better, but it's a function of cost. Mr. Amaral emphasized that the asphalt is in deplorable condition and that full depth reconstruction will be needed.
- A question arose as to whether the current proposed Plans will change much during final design. Mayor Holaday assured everyone that the concept design was well thought out and will not likely change much. Mr. White added that the most common things to change are roadway widths and whether or not sidewalks are added.
- A discussion ensued regarding funding the project. Mayor Holaday explained that the City's bond rating is very good and that this project will likely be bonded because it has to get done. The intent is to do field survey and begin design this coming fiscal year and bond the construction the following years. She also added that the City's Chapter 90 funds are not sufficient enough to fund this work and are better used elsewhere.
- The residents acknowledged the culvert at the base of Phillips Drive has not backed up and overtopped the road, which suggests it's not undersized. Mr. White was pleased with this but added that it'll be evaluated during design to see if it needs to be replaced due to its condition.

III. Next Steps:

- Create a webpage on the Engineering Division's website for this project and upload the presentation slides, reports, and meeting minutes for the public to access.
- Do test pits to determine depth to ledge.
- Install subdrain to eliminate icing in road at 19 Phillips.
- Begin field survey and design in FY19.
- Follow up with residents as things progress.

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