

Stormwater Management Committee



Meeting Agenda
Wednesday, November 20, 2019
Leawood City Hall
Main Conference Room
4800 Town Center Drive
Leawood, KS 66211
7:30 AM to 9:00 AM

WELCOME AND INTRODUCTIONS

OLD BUSINESS:

1. Review/Approve Minutes from last meeting of August 28, 2019.

NEW BUSINESS:

2. Review Leawood South Storm Drainage Project
Easements obtained and outstanding
Need for condemnations to move forward

ADJOURN

MISSION STATEMENT

To recommend to the Governing Body how to enhance the stormwater policy; and to provide a forum for citizens, staff and Council to discuss and study stormwater concerns and issues.

~ 2018 APPOINTMENTS- STORMWATER COMMITTEE MEMBERS ~

James Azeltine, Chair, City Council Member Ward 4
Debra Filla, Vice-Chair, City Council Member Ward 1
Lisa Harrison, City Council Member Ward 3
Mary Larson, City Council Member Ward 2
Skip Johnson....John Kahl....Matthew Kayrish
David Lindley....Curt Talcott....William "Bill" Ramsey

CITY OF LEAWOOD

***INFORMATION FOR THE
STORMWATER MANAGEMENT COMMITTEE***

November 20, 2019

**TO: James Azeltine, CHAIR
Committee Members**

**FROM: David Ley, P.E.
Director of Public Works**

SUBJECT: See attached agenda

OLD BUSINESS

Approval of Minutes of August 28, 2019

NEW BUSINESS

City Council referred the review of easement costs pertaining to the Leawood South SMAC Project. This project will improve the safety and help protect property values by correcting roadway flooding and reducing the likelihood of flooding to multiple homes within the Leawood South neighborhood. While construction will directly impact approximately 50 properties, easements are needed from 19. Staff has been working with these residents and has received easements from 4 property owners.

The residents in this area requested to be on the July 31, 2013, Stormwater Committee Meeting to request the City create a project to minimize flooding in the neighborhood and on the streets. Included with this agenda are the minutes from that meeting and pictures submitted by the residents prior to the meeting. The Stormwater Committee made a recommendation that City Council submit to the County all three locations that were discussed at that meeting.

Public Works had Preliminary Engineering Studies completed for all three locations in 2014, and all were approved for SMAC funding for flood control. The first of the three projects has been constructed and is complete. This project, Leawood South Drainage Improvements is the 2nd and the 3rd project is being designed. Construction of the 3rd project is contingent on the completion of this project.

Staff has been working with the residents for the past several years on the layout of the storm sewers to avoid as many properties, trees, and landscape areas as reasonably possible. We had several Amendments to the design contract modifying the construction plans to accommodate residents requests on the alignment of the storm sewer.

In September of 2019, easements were sent to the residents and a public meeting was held. Since then staff has met individually with several residents to discuss the project and the impacts to the properties. To bid this project and begin construction in February 2020, the City sent another letter asking for the donation of easements by November 1st.

The first phase of construction will occur on the Leawood Country Club golf course and needs to be completed between the months of November-March to minimize impacts to their club activities. Since we do not have the easements required to bid the project, the schedule should be shifted to start field work no earlier than November 2020.

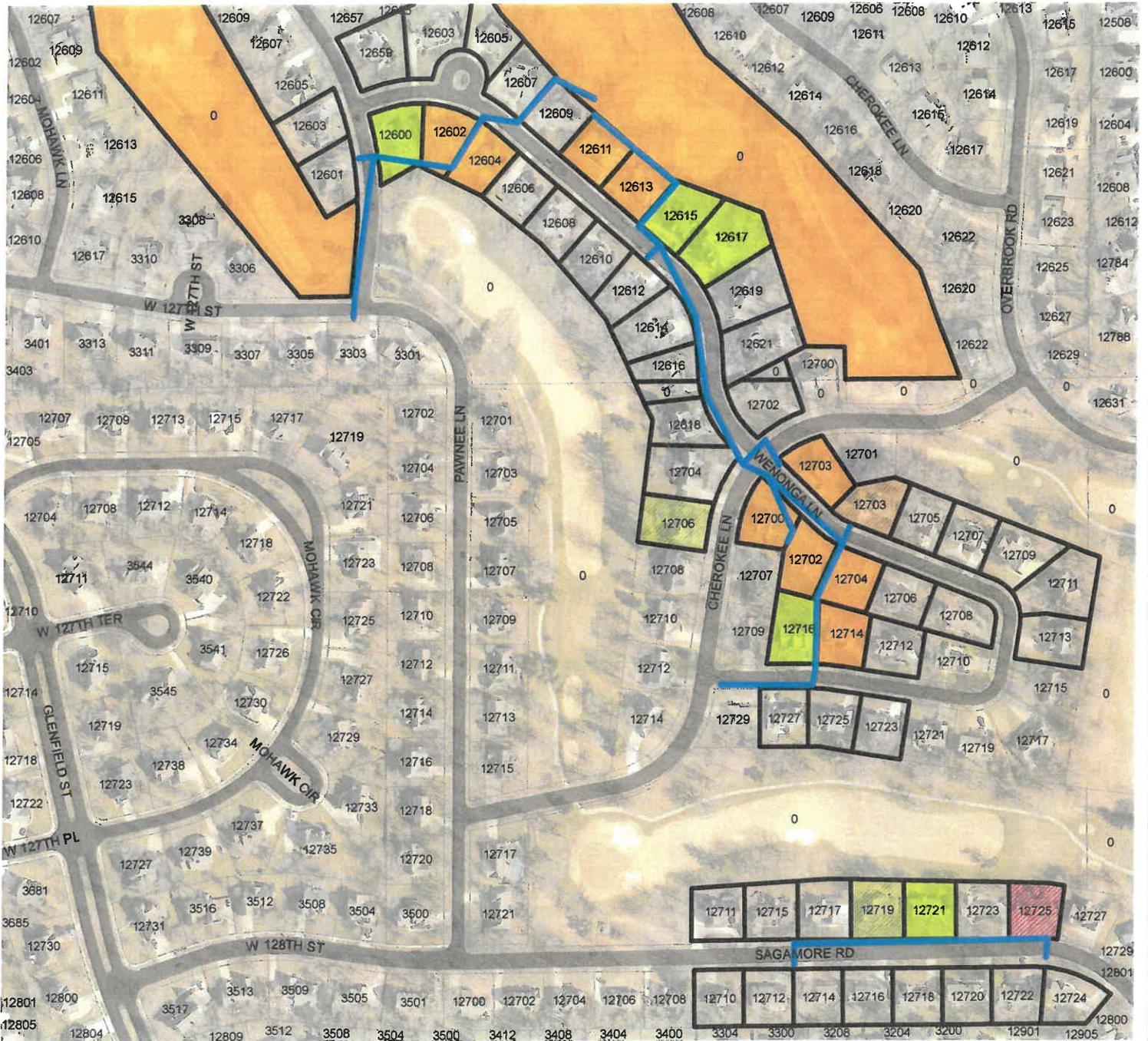
Staff has spent hundreds of hours and the City has spent over \$50,000 on engineering amendments to modify the design of the storm sewer to accommodate the residents requests as best as we can. At this time staff does not believe the residents will donate the easements.

This meeting is meant to help staff and the Committee Members in discussion on how to obtain the easements. If the Committee would like to meet again with the residents, we can schedule that for a January 2020, meeting.

Public Works would like a recommendation on one of the following paths forward;

1. Continue to have staff work with the residents.
2. Proceed with condemnation/paying residents for the easements.
3. Complete the design of the project and place construction on hold.

Leawood South Storm Sewer Improvements SMAC TM-04-008



Legend

Easements & Status

- No Easement Required
- Temporary Easement
- Temporary Easement Rec'd
- Temporary & Drainage Easement
- Temporary & Drainage Easement Rec'd
- Drainage Easement Rec'd

**MINUTES of the
STORMWATER MANAGEMENT COMMITTEE**

**Meeting of: Wednesday, August 28, 2019
Leawood City Hall, Main Conference Room**

COMMITTEE MEMBERS PRESENT:

James Azeltine, CHAIR and Councilmember Ward 4
Debra Filla, Vice Chair and Councilmember Ward 1
Skip Johnson
John Kahl
Matthew Kayrish
Curt Talcott

COMMITTEE MEMBERS ABSENT:

Lisa Harrison, Councilmember Ward 3
Mary Larson, Councilmember Ward 2
David Lindley
Bill Ramsey

GUESTS (by order of sign in sheet)

Leah Maugans, 9320 Lee Court, Leawood, KS 66206
Rick & Jackie Nowak, 9306 Lee Court, Leawood, KS 66206
Patti Kettler, 9429 Lee Boulevard, Leawood, KS 66206

STAFF PRESENT:

David Ley, P.E., Director of Public Works
Brian Scovill, P.E. City Engineer
Julie Stasi, Administrative Services Manager, Sr.

CALL TO ORDER: Chair Azeltine called the meeting to order at 7:30 A.M.

INTRODUCTIONS of those in attendance.

FIRST ITEM OF BUSINESS: Review and approval of previous meeting Minutes.

ACTION: Skip Johnson- made a Motion to approve the Minutes as written of the July 31, 2019, Meeting.

Matthew Kayrish- seconded the Motion to approve.

All members in attendance were in favor. Motion passed; Minutes approved.

SECOND ITEM OF BUSINESS: Review Drainage Concerns at 9320 Lee Court.

David Ley said over the past few months several property owners have contacted Public Works about drainage concerns in the area north east of Lee Boulevard & 95th Street. Ninety-Fifth (95) Street is kind of the high point and water is flowing northeasterly to Lee Court and he will go through some of their concerns.

- **9435 Lee Boulevard.** Thinks that is a newer property owner, more recent property owner. They contacted us. Lee Blvd on the east side, north of 95th Street, and approximately 600 feet to the north, there are no roadside ditches, so the water is just flowing off the pavement and continues to flow east and hits the front of those properties and wraps around/flows to Lee Court. This property owner contacted us with issues of the water coming off of Lee Blvd and coming down their driveway to the front of their property.

- **9429 Lee Boulevard.** Has similar issues with Lee Blvd and they also collect about 2 acres of flow that comes from 2326 and 2322 W 95th Street. So this water is flowing north and it flows to the north rear yard. We met with the property owners.

- **9320 Lee Court.** The property owner has quite a bit of flow that goes on the rear of their property on the west side. It then goes to an area inlet at 9316 Lee Court and the problem is there is about six (6) acres that drains to that area inlet.

- **9316 Lee Court.** The property owner here has flooding over the past several years. They have spent quite a bit of money and we do have their receipts for basement repairs, installing storm

drains, private storm sewers on their property and then also doing grading.

- **9312 Lee Court.** The property owner here talked to us about sheet flow that is coming off of two properties on Lee Boulevard. The water is flowing east and just flows along their retaining wall. There are a couple of area inlets here but they are kind of a grate style type of inlet, so they do not collect a lot of water and they do become clogged very easily.

In looking at the drainage map, the first area inlet is at 9316 Lee Court. The drainage area to that inlet is about 6.4 acres. Typically on new subdivisions when they are designed now, the first area inlet is at about 2 acres where it is attempted to capture the water as you are going down stream. You do not want to wait until you are downstream to try to collect it. A little further to the north (near 9312 Lee Court) there is about 1.2 acres that just sheet flows east and there are no swales, so it just ends up going towards the rear of a property and then onto Lee Court.

- **9306 Lee Court.**-Richard Nowak-added information on 9306 Lee Court. Advising they have had water problems as well with water in their basement for years. They have built two (2) berms, and there is ponding behind the west berm when there is a heavy rain. Mr. Nowak said he could provide pictures. (Mr. Nowak and was given the City's emails for doing so at this meeting). They also have had water problems in the basement where they spent a considerable amount of money with waterproofing, bracing and so on. A list of those expenses and receipts can also be provided of that information. David Ley asked Mr. Nowak to email his photos and information to him.

Curt Talcott-Asked if the water coming into the basements was coming in through a window/opening or is it coming from the floor or the walls?

Richard Nowak-No, not the window, coming from the floor and walls. The property to the west of us built a garage and with the grading of that, it kind of funnels water to our property.

Jackie Nowak-Also advised the driveway of another house has water that flows towards them.

David Ley-Asked when the garage was built. Looks like it has an arbor/trellis type structure.

Jackie Nowak-Said it was built before they moved in in 1998.

David Ley-Played the videos received and the group viewed pictures of where the water is during the rains. A few of the pictures were from this past week where we had rain.

Leah Maugans-Said she tried to capture the velocity rate of water flow just down the driveway and looking at the railroad ties present, there is a waterfall coming off of that.

Debra Filla-Has swales in her own back yard and there is not a problem because the swales cause the water to be directed on down through all of the yards. When does the swale that is taking water down-hill become a problem? When it is coming into the house and basement right?

David Ley-Correct.

Debra Filla-So now we are looking at the velocity now.

Curt Talcott-And capacity too.

Leah Maugans-So we are going to have Lee Boulevard widened now, that means we will have a lot more coming off flowing to us. That is going to make it worse.

David Ley-Mentioned that Lee Boulevard north of 95th Street is scheduled for next year to be improved. The plan is to widen it about 2 ½ feet on the east side and a half a foot on the west side. Part of that is because of the curbs we are putting on Lee Boulevard. We are going to have the engineer address the water flow off of Lee Boulevard north of 95th Street, so we can try to capture that. We have an underground storm sewer system (blue lines on a map presented). There is an underground stormsewer system on the east side of Lee. But there are no area inlets to collect the

water. The ground does drop off, so it may be difficult to get a swale or a roadside ditch along this section, but we could always install curb for several hundred feet to maintain that water on Lee Boulevard and direct it to a curb inlet.

James Azeltine-Asked about the stormwater system but no inlets?

David Ley-The inlets are on 95th Street and south of that near Lee Boulevard that are collecting water. However north of 95th street, there is a 600 foot run with no area inlets. David thinks it is because the ground slopes down, so in order to grade a swale you would have to be deeper. In order to grade that out you may have to remove some trees along Lee Boulevard in order to install a roadside ditch.

Debra Filla-Asked what year Lee Court was developed? Developed after all these other homes.

David Ley-Correct, believes it was in the 1960's. Dave also said there was a Johnson County Stormwater Project in the 1990's that came from the east with a storm sewer line downstream. That stormsewer line was replaced up to Lee Court and to the rear of 9316 an area inlet was installed. Dave was not sure why at that time the storm sewer was not continued further south.

Patti Kettler-Also when it rains now, it floods on Lee Court.

Leah Maugans-Our concern obviously is we are going to get water, that is part of homeownership, but the volume of it, the amount of water that we get is not realistic to expect. I have lived at our property for 3 years now and it has only gotten worse. It is getting closer and closer to our house. Every rain it is a few feet closer to the home. Because of the almost 7 acres of water expected to go to that small drain, it is just not handling it.

Patti Kettler-Has been there for 30 years and there has always been some that flows and I cannot explain why but it has gotten worse in the last 2 to 3 years, particularly coming further east on 95th. The two houses on 95th you mentioned, there is a flow coming, from the 3rd house over, down the back. I went out there last year and it is just this huge flow coming down the back, very, very fast. The other comments is, on some of what you saw, the rate of rain was not a 100 year rainfall. We had a rain between 2 and 2:30 of a half an inch. And you saw what kind of water that creates. So when we have a rain larger and longer, we have a real problem.

Group reviewed photos and videos.

Comments on photos and videos: David Ley advised they did meet with another property owner there that had done a lot of work, regrading, and connecting their downspouts to drains and rebuilt berms to try to protect their house. Along with another receipt of \$8900.00 spent by a homeowner.

Leah Maugans-Advised they also get debris and glass that comes with all the water. She has two young children and she cannot utilize her back yard very well. Grass does not grow as there is always water there.

Jackie Nowak-As an outline of what they have had to pay, in 2013 they ad \$12,000 worth of work done all foundation work. In 2016, they had to replace the drain boxes because when they did get the rain, it separated the window boxes. Then in 2018, they paid another \$12,000 to the other area of their basement. Again with all the vertical walls, sifters, two more sump pumps, concrete work. Injections. Besides that, that was their finished basement, so this spring we had to finish that again and that was \$30 some thousand.

David Ley-So you built berms? Was that some of your work that you put in?

Rick Nowak-I had done those earlier, two berms; one closer to the house and then one out west and the one out west gets ponding behind it when we get a heavy rain. I can provide a picture of that to you.

Debra Filla-When we look at the new construction along Lee Boulevard, there have been some big homes built-are we having issues from that?

Dave Ley-Not along this section. Probably the most recent home that has been expanded has been back in the 90's. The homes south of 95th Street are not in this watershed, those go further south.

Patti Kettler-Talking about the water flow, it does curb and I have also built bridges and different things to help stop the erosion it has created.

Leah Maugans-Shows an entire area that is new. She has been in this location for 3 years and now there is a new area that is happening consistently with water flow (at 9320 Lee Court).

David Ley-Advised one option would be to extend the storm sewer system from where it ends at 9316 Lee Court. Dave displayed a map depicting three (3) new inlets that could be installed in the back yards, south, upstream to collect the water as it is flowing down stream. This project is probably on a scale of \$300,000. In addition to that would be to grade a swale between 9401 Lee Boulevard and 9312 Lee Court to direct the water to the south and then rebuild these area inlets, so they would meet our standard area inlet and help the flow better. We have not looked at the 9306 property to see what is going on up there as we did not have that information at the time.

So the underground storm sewer system, the pipe between these two area inlets would be designed to collect the 2 acres and as you go downstream, the 1.3 gets in another area inlet and then the last one would be draining the 3.3 acres, so it continues on. We really would have to review the underground pipe, but this system was to be constructed for the 100 year storm (the 1% storm with that SMAC Project), we would need to verify that.

Brian Scovill-The rain events this recent past Sunday night Monday morning amounted to over 3 inches of rain. That is from the Dykes Branch gauge just a few blocks north.

David Ley-We will talk with the engineer on Lee but also about the capacity of the storm sewer on 95th Street. We have not had any records of this backing up and flowing onto 95th Street and flowing to the north. And we did send out our maintenance staff to verify it is not blocked. We would be notified if it was coming out and blocking traffic.

James Azeltine-It doesn't sound like with our project on Lee Boulevard that there's much that can be done on that side to relieve this? Since it seems like most of it is coming from 95th.

David Ley-We could have the engineer look at Lee Boulevard we could maybe reduce it by 6/10th of an acre to collect that water at Lee Boulevard. The water that flows off Lee Boulevard, from the crown of Lee, which is the middle of the road, the water is just sheet flowing east. So we are going to look at trying to collect that either in a swale along the roadside or possibly look installing curbs and direct that water to a curb inlet.

James Azeltine-So that would be a partial solve.

David Ley-That's what we could do next year.

Curt Talcott-That is only about a tenth of what we are looking at.

John Kahl-Is Lee not getting curb and gutter north of 95th as part of whatever work is being done?

David Ley-We are proposing to put a gutter section along Lee the entire stretch. That is only 9 inches and it is the same elevation as the roadway, it is just to give a nice clean edge for the property owners and it will help hold the asphalt pavement together better.

Brian Scovill-Not really a stormwater feature.

James Azeltine-Asked where is the County on the whole SMAC Division?

David Ley-We are still waiting them to come up with their rating program and develop the

watershed committees.

James Azeltine-And after it happens, they are going to base the bigger projects on watersheds rather than random areas, but what will it still be based on, what you've heard? Won't there still be some type of a reimbursement?

David Ley-It will be 50% if a project meets the points of qualification. Our understanding is the qualification system is changing but we have not seen it yet to know what it is.

John Kahl-From the descriptions that we've heard today, sounds like we have a lot of nuisance problems but I have not heard anything that would describe or give us any points for county funding. Basement flooding is coming from the walls it's not surface water, so that would not be eligible for being addressed directly as part of the SMAC (Johnson County's Stormwater Management Advisory Council) Program.

David Ley-Typically, in order to get SMAC funding you need a couple homes ...

John Kahl-Someone needs to flood, more than one time.

Leah Maugans-They have flooded-several times.

John Kahl-Through a window or a doorway? Or is it water coming through.

Rick Nowak-Ours has flooded several times.

John Kahl-But not windows or doors, you said it was coming through the walls or the floor. Which is ground water which wouldn't be stormwater, so it would not be eligible for consideration.

Rick Nowak-Why does it only come through then after a rain?

John Kahl-Because then the water goes through the ground. It's a definition where someone has to draw the line somewhere and that is where they (the County) draws the line. It's the same argument that you will hear about on the coast after a hurricanes where they get in the argument with the insurance company over well was it wind or was it flooding? You know, well of course it was flooding and they say, well yea, but your house blew down first. Unfortunately, some of these types of flooding are way down the list for the County program.

David Ley-The new set of criteria is also going to include some water quality projects and it is not all flooding as it was before. Some maintenance projects, watershed projects and some local.

Patti Kettler-Asked if we had a picture of the ribbon curbs and what do they look like? Her greatest concern-if you block any of that water coming off of Lee, which goes onto our yards being absorbed. Any of that stopped and it starts coming down Bobs and my driveway and our neighbor's driveway, it will be bad.

David Ley-If we put the ribbon curb in, the water will still sheet flow off the roadway. If we put the high back curb in every one's driveway where that high back is at, would have to be humped up. So we would bring the driveways up to at least the top of the curb so the water stays on Lee Boulevard and stays on the street and does not open or top to go down the driveways.

Patti Kettler-Okay but then what in other spots, like across the berm right now it still flows to the dirt.

David Ley-We do not have an engineer on board yet for the Lee Project, we are hoping to have one in September.

Patti Kettler-Taking a picture to a neighbor to the north, they have no grass. You can just see the swells of dirt and crud in her front yard from the amount of water that is flowing off of Lee. Just to my point if you restrict that at all in the construction it will really heighten that.

Curt Talcott-If the construction restricts the flow, it will be collected by a curb and taken to underground if that is what they do.

Brian Scovill-As Dave mentioned the ribbon curb is flush with the pavement, water flows right off the

road right into the adjacent grass. In a lot of areas there is a ditch, but along this section there is not really much of a ditch. So we hope to be able to extend some curb around the corner there with an inlet on the corner to help capture some water. But to Curt's comment, it is such a small, small amount water in relation to the 6.4 acres. And also if we did add inlets all up and down Lee, that is such a small amount of water in relation to the 6.4 acres.

Deb Filla-in the back yards and homes area.

Rick Nowak-You are saying the water coming into our basement is ground water, but won't drainage of water off Lee Boulevard bring that into our yard contribute to that ground water?

John Kahl-Yes. But once it goes in the ground it becomes a different category and the County Program does not recognize it. Just like out west where the water is short. You are not allowed to collect rain water. But if you can drill a well on your property then you have mineral rights, so once it is in the ground it becomes a different category than once it's on the surface. Even through what is in the ground comes from the surface. It's just a categorization thing.

Debra Filla-There could also be springs down there right?

John Kahl-Yes there can.

Leah Maugans-The reason we brought it to your attention is really because we know that there is going to be work done and our hope is obviously that you can help us problem solve or to help it or at the very least prevent it from getting worse.

Deb Filla-Asked about when the 1/8 cent sales tax how far out is it expected to go?

David Ley-Currently as it becomes available, I think next year we have some additional money coming in. We have projects identified but they are extremely large projects and it will not fit within the current funding. We will have to get it renewed in 2021 in order to fund those larger projects.

James Azeltine-So in regard to the 2020 Project on Lee, what are our options as far as adding to or adjusting the engineering contract to help out a little bit on this?

David Ley-Well we could ask the engineer to look at options. Whether it be a roadside swale or if we need to put curb & gutter, replace some of those driveway aprons to keep the water on the street and collect at that point. Those improvements should be able to fit within our budget on Lee Boulevard.

Deb Filla-But again that is only 10% of the water.

David Ley-Yes that's 10%, it is impervious so that helps a little bit.

Deb Filla-So in terms of looking at your estimate of \$300,000 fix that you mentioned to address the six acres.

James Azeltine-Would that be on public property or private property?

David Ley-It is all on private property. So we would need easements donated and there would be probably a 20' wide path that would just be cleared. All the trees would be removed. Probably near seven lots.

James Azeltine-Well in the past, whether or not we make a recommendation to the Council on some type of a project it is dependent upon a couple of things. One, how many properties are involved? And secondly how much of it is a public issue vs private property?

Both of those factors as far as I can see work against you on this. Because there are dozens easily of this type of thing all over the City. And Leawood does not have a stormwater tax. We have a 1/8 cent sales tax that helps. But we do not have a utility per se that we can use. What we have tried to do in the past is make sure that our public system is sufficient as possible and if we do (and this is just my opinion) but if we do a project where there are a few properties involved and it's debatable.

We have not concluded whether anyone has actually flooded in John's definition. So I think this is kind of a hard sell. I'd love to know what the engineers think.

John Kahl-Your points are well taken other than even if they wanted to undertake this individually and on their own; it crosses enough different lots and enough different properties it would be extremely difficult for the neighbors just to get together and band together and do this. So at a minimum or something like what David is proposing as a solution here. And with the storm system, it would need some level of City involvement to facilitate at a minimum.

James Azeltine-Right and that would require easements. What about an improvement district? Is that an option?

David Ley-That would be something the Governing Body would have to decide if that is what they wanted to do to pay for a project like this.

Deb Filla-Explaining to the residents what this means: a special benefit district means we would collect through taxes over twenty years and you would pay it back. It would be assessed against all the properties involved. Like James said it would be that everyone would have to provide and donate their easements and the City would certainly give a higher priority to groups that donate their easements. The area would have a higher priority than a group that could not get everyone on board. The assessments stay with the property and if they are sold they go along with the property until the assessment period is over.

Leah Maugans-Help me understand. Obviously again before coming through private property the water that comes is our responsibility. But evidence in this photo or the photo that says the acreage, that is something that the City does for new developments to prevent this from happening. And the City has not done that for us for our property. So that to me is not okay, what are we going to do about that?

Patti Kettler-I kind of draw exception to what you mentioned earlier that this is not a City issue and is more of a land owner issue. Because we have provided a whole lot of evidence of how the water collected on the public freeways is coming towards us.

Leah Maugans-I see and respect what you are saying, but I also think because the City has not done their part to prevent the water coming from the street coming onto our property and what ever you are going to do to not collect it, I can't control.

Deb Filla-It is not the street.

John Kahl-A small fraction of the water is from the street.

Deb Filla-The question I still have is what has changed? Because that 6.4 acres, except for the garage addition that has been there for quite a bit of time and Lee Court has been in since the 1960's. Why is it all of a sudden much more? Is it just the accumulative of people changing landscaping and contouring?

John Kahl-Part of it is rainfall patterns. We just came out of a drought 2 or 3 years ago and the last couple of years we have been in a really wet cycle. We have had multiple 100 plus year events and when those happen, problems like these are identified.

Patti Kettler-I've seen it for 30 years. I came to the City Council and I did bring this to the City's attention back in the 1990's—early 2000's with the help of my Council people and it was not heard.

Jackie Nowak-We moved in in 1998 and we have always had rain coming around our house. We thought it was going around and obviously it was coming down there, but if you look at the lay of the way our street was made, it's all on a downslope from Lee Boulevard. So everyone gets it.

Honestly I think half the people there have had their basements redone. It's all a down slope.

Curt Talcott-Does not think anything major has changed in this area. Thinks we are getting more frequent. This is going to be one of the top five wettest years in Kansas City History. Like what we had last Monday morning, it's falling on already saturated soils so. You talked about the berm being built in the back yard, well that water is not going where it was before it is going someplace else and maybe more concentrated of a flow. Adding 2 ½ feet to Lee Boulevard would be miniscule runoff for you. That is such a small fraction of the overall water here.

This is a great example of where they might be able to use the 1/8 cent sales tax with partially City funded-this as John said, the homeowners themselves this would be extremely difficult for them to take on as a home owner.

Deb Filla-Doing the math if you had \$300,000 to \$400,000 over 20 years. Divided into how many properties.

Curt Talcott-Roughly \$65,000 a property for 6 properties over 20 years. About \$3,000 to \$4,000 a year.

Deb Filla-So that works out better given what you all have been spending per year on your own fixes. As your property has it assessed, it is with the property and is considered your own personal storm tax (because we do not have one City wide).

Leah Maugans-Sorry to interrupt but if it is standard for two acres to have a drain and we have over double that. That seems to me like the City of Leawood should say okay we're not doing our part. What can we do to help with that? Because again, my basement will flood, it's going to flood. And I know that is just the progression of where we are going. So in a couple years when my basement floods and I come really mad to you. You know-so why not, here we are now, why can't we at least start working to something that can actually do something that makes water flow better for the citizens. That is where I'm at. I know you can't wave a magic wand and that it is a big undertaking but. If it is climate change and whatever with the rains happening. It is only going to get worse then. As a citizen it is disappointing that I'm hearing oh well.

Matthew Kayrish-I think we already showed a plan to add a few drainage inlets to cover the 6.4 acres to help.

Leah Maugans-Yes and what I'm understanding is...

Patti Kettler-They are suggesting that we pay for it. And what you are saying is the City has a Charter to provide; their primary charter is to provide basic utilities. That is what we pay our sales taxes for, and that's what we pay our property taxes for. And I think what you are hearing the citizens say is we struggle when you say you don't have the money to do the things and that it is part of your charter. And that it would be on us and to consider a special benefit district to pay about \$400,000 in 20 years to fix a problem that we perceive as being a City problem from inadequate drainage coming off of a public highway.

Debra Filla-It is not the drainage off the public road. It is the drainage off of the developed 6.+ acres of homes in Leawood.

Leah Maugans-In addition to that sure and what we've shown you in the pictures.

Debra Filla-What is the final number in terms of replacing the conduits? Corrugated metal pipe that are rusted?

David Ley-About 35 million dollars.

Debra Filla-Just so you understand in construction. We have (I don't know how many miles) but we have 35 million dollars' worth of those existing systems that are rusting at the bottom. That have to be redone. So the question of if we are going to pay for it, the Capital Improvements, when could we have that money available? Next year, two years, five years out. Then so you understand your options are you could wait until money is available (from the taxes) or you could partake in a special benefit district earlier. That is not what we are suggesting at this point, we are just talking about options. When you are spending \$12,000 in you're a basement and you don't have the funding for it because you all have priorities. The question is do you want to wait for our money or do you want to be part of a different plan, this is just an option to think about.

Curt Talcott-And if we fund this project there are probably 40 to 50 others out there in Leawood that would want funding and to get on the same list. It would have to be ranked against those.

David Ley-We are looking at developing a ranking system for projects like this. We do have quite a few projects that have come in asking for help. It would be based on if the residents are willing to donate easements, or participate in some type of funding assistance with the City. Once we get a ranking system then we could go through all of the projects and prioritize which ones have the higher cost benefit ratio.

Debra Filla-Even if you would do a benefit district, that does not include the City Staff's time and engineering and all of the work that they do to complete a project that is not being included in that. So there is a lot still that the City is doing in terms of getting this in place. Structuring a special benefit district and assessing it to the properties. All of that administrative work is what the City does so there is a part of ownership.

Leah Maugans-Okay. Obviously you can see the problem obviously and to know that we have you on our side and as we work together to continue to find a solution. Obviously this is not going to happen overnight. But as we enter the Lee Boulevard Project and everything like that, you know, obviously our involvement and understanding what is going on. We want to make sure that we are not going to get more water because of Lee Boulevard Project and making sure that there are steps that we can take to fix this. Because like I said, even if it's off private properties-6 acres. If new developments in Leawood and most other developments in Leawood have drainage every 2 acres, even if it's coming off of private property, that's not, you know meeting the needs.

Skip Johnson-I keep hearing you saying the same thing over and over again. That all the properties in Leawood have this 2 acres feature as they just pointed out, that is new development. We have tons of properties that do not meet that criteria right now. So it is not just you guys. We have other properties.

John Kahl-Most of us do north of I-435 suffer some of this.

Leah Maugans-Well here we are coming to you.

Skip Johnson-My basement has been flooding the last two years and I've had basement work done just like you guys and it is coming out of my pocket and that is my responsibility.

Leah Maugans-Understood.

Jackie Novak-But we're are only going to live with that for so long; people won't put up with that.

Leah Maugans-I respect that we choose where we want to live and water is a tricky thing. We just hear that there is a big project coming near our homes.

Debra Filla-Just to make sure that you understand that this big project has a potential of doing 10% of the problem. That the staff is going to outline other things that they can do that will help the

community. So if you can take that out of the discussion it will be helpful because we just keep muddying the waters with what is a small piece of water (10% along Lee Blvd) that is going to be affected by the project and they will take care of that portion. That is something I hope you have settled and keep in mind.

Leah Maugans-Yes. Just trying to help you understand that is one of the reasons why we came to you in the first place because we just thought this is a good opportunity for us.

Debra Filla-Do you understand now how those are two, not linked solutions.

Leah Maugans-I do understand and I also would like to understand what the engineer that is hired, what they come up with and that we are continued to be informed about the plan. I think that would be fair for us as homeowners.

Patti Kettler-I think what we are saying is we are not convinced that that issue is settled. And we would like to be a part of that as that goes forward so we are insured that easily 10% increasable water flow is being addressed.

David Ley-Yes we can include these property owners as we will be speaking with the Lee Blvd residents for the Lee Blvd Project. We can reach out to the property owners along Lee Court to share our plans where we are making and changing to a roadside ditch or curbs.

James Azeltine-The other thing I have not mentioned is each year in January the Council has a goal setting session. And for the last two years I put forward an idea of what I call a Mini SMAC Program (similar to the County SMAC Program). Where the City would set aside some funds in the interest of cost sharing on smaller projects. I'm not sure this would qualify for that. If this is close to \$400,000, that is not a small number. Although we still haven't formulated a policy and have an Ordinance proposed to Council yet. But I will start pushing on that. I'm not sure how this would affect your project area here. As far as any options right now, I think what we do as the 2020 Lee Boulevard Project gets rolling, see how that affects the situation and as David said, bring you guys in for that process to at least address that.

ACTION: Debra Filla –made a Motion to Amend the Contract with BHC Rhodes (Lee Blvd Design Engineer) and have added to their contract a preliminary engineering study of the 6.4 Acre area in the Lee Court Drainage Area for possible solutions.

Curt Talcott-seconded the Motion.

All members in attendance were in favor. Motion passed.

Chair Azeltine adjourned the meeting at 8:40 AM.

Minutes transcribed by Julie Stasi, Leawood Public Works Department.

MINUTES OF THE STORMWATER MANAGEMENT COMMITTEE

Meeting held: Wednesday, July 31, 2013-Leawood City Hall, Main Conference Room-7:30AM

COMMITTEE MEMBERS PRESENT:

Jim Rawlings, Councilmember Ward 2 and CHAIR
Julie Cain, Councilmember Ward 4
Skip Johnson
John Kahl
Alec Weinberg

COMMITTEE MEMBERS ABSENT:

Debra Filla Councilmember Ward 1
Pat Dunn

GUESTS: (as listed on sign-in sheet)

Mary Nagy, 12615 Wenonga, Leawood, KS 66209
Rick Mundis, 12615 Wenonga, Leawood, KS 66209
Frank Loeffler, 12609 Delmar, Leawood, KS 66209
Dave & Kathy Wininger, 12017 Wenonga Lane, Leawood, KS 66209
Joe Houlehan, 12704 Wenonga Lane, Leawood, KS 66209
Howard Collins, 12611 Wenonga Lane, Leawood, KS 66209
A.L. Bontrager, 12716 Wenonga Lane, Leawood, KS 66209
Jean Mosimann, 12613 Wenonga Lane, Leawood, KS 66209
James Mosimann, 12613 Wenonga Lane, Leawood, KS 66209
Suzanne Kerley, 12708 Catalina, Leawood, KS 66209
Charles Joseph, 12616 Wenonga Lane, Leawood, KS 66209
Toby Boschert, 12725 Wenonga Lane, Leawood, KS 66209
Sue Thurgate, 12612 Wenonga Lane, Leawood, KS 66209
Fred Rieke, 12614 Wenonga Lane, Leawood, KS 66209

STAFF PRESENT:

Joe Johnson, Director of Public Works
David Ley, City Engineer
Julie Stasi, Administrative Services Manager

Chair Jim Rawlings called the meeting to order at 7:30 AM

Members, Staff and Residents introduced themselves.

THE FIRST ITEM OF BUSINESS WAS TO APPROVE THE PREVIOUS MEETING MINUTES.

Alec Weinberg Motioned to approve the Minutes from March 27, 2013.

Skip Johnson seconded the Motion; all attending members in favor. Motion passed.

THE SECOND ITEM OF BUSINESS: REVIEW THE CONCERNS OF SEVERAL AREAS/STREETS THAT HAVE BEEN FLOODING MOST RECENTLY DURING THE LAST BIG RAIN STORM OF MAY 31, 2013.

Joe Johnson described three different areas that had flooding. Mr. Johnson advised the City had several areas that flooded; these are the three main areas we are looking at today. This flooding was the result of the rainfall on May 31, 2013. We went back to the City of Overland Park and reviewed their storm watch website system which has rain gauges throughout Johnson County and Kansas City Missouri and looked at the ones that were closest to these three areas and the areas are real close to each other. (Joe shows the areas on the overhead maps and their

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proximity to each other).

We are looking at rain gauges. We are working with Overland Park to get a few more rain gauges added to this area. In the last 3 or 4 years we seem to have some real intense rain and this area seems to be where we experience the most flooding. In looking at the gauges on that Friday in May, we had rainfall events in the south part of the area (135th Street, that were almost 100 rain fall events as far as volume of water). One area was 1.86” of rain in 24 hours and I think the other was 1.88”. In the middle part of the City we had rain intensities that approached 25 to 50 year event. When you add on top of that that we were already saturated before we got this rain, then everything just floods.

We had the rain event, we received phone calls, we received pictures. We had information from our Police Department on areas that flooded. Two of the areas we are looking at: 12615, 12613, 12611 Wenonga we had street flooding upwards of almost four feet of water. We have had street flooding in this area; and last year we did a storm sewer project a bit south of here. Joe described the map where we marked a few houses we knew flooded (in orange highlights on map). All four homes we know had flooding.

Unidentified resident advised another house that flooded, the reason it flooded is due to a private project a home owner had going on where they altered the drainage. Along the side of the house AT&T was working trying to find cables and they had holes in the area too which caused some dirt to fill up some of the drains. So there is another reason why one of the houses may have had water.

Unidentified resident: All that flooded are not colored on the map. That is a sprinkling of it.

Joe Johnson. Right, those are the ones that we (the City) knew of. (Joe displays photos of before and after-- displaying areas where the water came up eleven, twelve feet into the yards.

Resident Dave Wininger advises the photos being shown are ones he took and furnished. The water had receded at least fifteen inches when these photos were taken. The shrubs that are showing in the picture were totally covered and the car in the picture, you could just barely see the top of the roof.

Unidentified resident has a video on his phone he passes around for committee members to see.

Chair Rawlings asks to let Joe finish his presentation please before we have input from everyone. Thank you.

Joe Johnson continues again and reassures the residents that we are not going to sit here and tell you the flooding didn't happen. We are well aware of this. The City does not want streets that flood like this.

Unidentified resident-But you understand this in a 20 year period; this is the 5th or 6th time.

Joe Johnson. Yes. Correct. We had a meeting a couple weeks ago with two professors at the University of Kansas who have been working with the National Weather Service. And there is one thing that they have seen: In 1932, 1940 they published the first rainfall charts that are used when you do stormwater design. And they updated the charts. The third update was just completed in the last 9 months. One thing they found over the last 40 years is that the rain events (although we are not getting any more rain on an annual event) but the rain seems to be coming in a shorter duration and very hard. So we are not getting the gentle rains that we used to get when it rains. We get one or two inches and then it goes away. So they are seeing that change and unfortunately that is why we are experiencing a lot more flooding than we had twenty years ago. When you look at this area of discussion today, what we need to do is increase the capacity of the storm sewer. Joe describes the different systems we have in

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the various areas.

Joe Johnson- describing the pipes currently in the areas. When we take a look, basically we need to increase the size of the pipe and add more inlets to capture the water. We want to start capturing upstream. If we wait to capture it downstream, it becomes more difficult at the very bottom of the hill. We want to start capturing it as far up as we can. One of the things we have to look at when we do this is once we increase the size of the pipe to put more water into it, more water is placed somewhere else. Many calls have already come in from residents that back up to the golf course and they are experiencing erosion. The golf course does have some issues with some of their greens. The City would probably start with an Engineering Study around 123rd & Mission Road. We would need to study the whole area and then model the channel that goes to the golf course to see what happens when we increase the pipe size? Do we have any adverse impact to the natural channel through the golf course? Do we make flooding at 123rd & Mission Road? Where are all the impacts when we increase the pipes? We do not want to increase the pipe size and get rid of the flooding, but then someone downstream turns around points back and says; now you damaged my property. So the things we have to look at are: how can we upsize the pipe, how can we minimize the impact downstream? Do we have to place large pipes under the street to act as detention basins? We could hold it in a large box and meter it out at a rate where we do not increase flooding to downstream properties and provide enough capacity where we can hold the water under the street and not flood the street and reduce the flooding of the property owners like what you have experienced in the last 5 to 10 years.

Unidentified resident-Joe these were flash flood situations. You could see the water coming down the street was rooster-tailing. It either can't get into or was coming out of those inlets. So the amount of rainfall that you talked about was the cause of the immediate flooding. It's not a long term problem that we have of raining. Yes we still have runoff from the golf course, but this is the situation where it's fairly dangerous. The Police have been there rescuing cars and I would think you really don't want that. The officer that came in to rescue that car was chest deep. I realize you have to do a study, but start at our street.

Unidentified resident-People are walking around in this lake and you got a light pole right in the middle of it. You know, that could potentially electrify the water. All these first responders that are going wading out in there potentially could be electrocuted. Or you as the person in the car could be already dead.

Joe Johnson-Yes. I'm not disagreeing with anything that and when you start getting flooding, you start flooding; whether it's a traffic signal or it's a street light or a transformer that sits in somebody's back yard. Yes, all those potential things come to life.

Alec Weinberg-So our assignment today is to look at this and make a recommendation to the Council on whether we should start an engineering study? To look at all of these drainage problems?

Joe Johnson-Right.

Alec Weinberg-from the golf course and north and that would be the whole deal (watershed). That really is what our task is today.

Joe Johnson. Right and when you look at (and in the write up in your packet). When you look at the

area of Wenonga Lane and see all the storm sewers and you go in and upsizing the stormsewer, you start picking the water up as you move down. There is about 3400 feet of peak of pipe that is within this area that we need to basically take out and increase in pipe size.

Unidentified Resident-If that golf course was developed today, they wouldn't be allowed to dump the water that comes through our yards like it is now. The water that floods my home, before it backs up the street and then comes back and comes into my home, it first comes down each side of my house like my neighbor's house...where it's coming down and rivers off of that course. Do they take any responsibility for their runoff?

John Kahl-Is that where the water historically ran?

Joe Johnson-Yes.

John Kahl-Then the golf course has no liability to keep it from flowing on you if that is the direction it flowed before. That is the way the water flows.

Unidentified Resident-You couldn't design one today that way. You make them handle their own water.

John Kahl-Well you couldn't build your house in that situation today.

Unidentified Resident-Yes you could. As a home builder you are not allowed to run your water onto another lot. The golf course is running all their water on to our properties.

Joe Johnson-No.

John Kahl-that is the direction it historically flowed. They can't damn it up and make Lake Leawood. Just because you build your house there...

Unidentified Resident-They do catch basins.

Joe Johnson-You have to understand, everybody drains to everybody. Your yard drains to your neighbor's yard; their yard then drains to the next. And those down at 123rd...

Unidentified Resident-You can't run a positive flow to them; you have to valley it before you get to their property.

Joe Johnson-If you are going to develop it then you do that. But if this is farm land and this is the way it slopes, then that is just the way it slopes.

Unidentified Resident-Okay with that thought in mind, the way it slopes it would go right on down to the golf course and you wouldn't back it up in that street that is flooding us. The street is causing the flood because it doesn't let it flow back out. We are metering it in our property area of the street because it can't run out.

Joe Johnson-And you're right, the streets do act as temporary detention basins. And that's the problem when you look at increasing the pipe size and taking away that detention that we don't want, then that volume of water goes down to the next low spot. And you may then flood somebody at that spot that didn't get flooded before because everybody up here was nicely detaining all the water for them. So those are the items that we have to take into account. When you do have open ground ...there are two ways. When you have open ground, you have less run off then you would get if it's developed. Because it's all draining. When you start putting roof tops in there then of course you are going to get a higher volume of water because you have less green area for the water to soak into.

Somewhat of the downside is, whether its farm land or a golf course, you pretty much leave the golf

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course sloping naturally and you try to put in the holes and take best advantage of the existing slope. No one wants to come in and do a lot of draining and that type of work. This was a community where the golf course and homes were all built at the same time. It was a planned community to have that way. When this was built, the thought was let the water run off the course, let it run between the houses, let the street convey the water. The problem is, once you get down to a low spot, it becomes very difficult to address. If you get these heavy rains and you are at the low spot, you know what happens.

Dave Wininger-It is obvious on Wenonga where we live we are like a retention pond. I don't know if the pipe is too small and is full, can't handle it that way or if the inlets; there are three small inlets in front of our neighbors house. Perhaps it's simple enough that they are too small and water gets there and just cannot get into the pipe.

John Kahl We identified some golf course areas in the past and we've identified areas of discussion for today. Are any of this sites we are looking at today related to what this committee may have seen in the past? We are not going to design the fix here today. Really the best we can do is make a recommendation to go ahead with the required studies that the County would need in order for this to get on one of their project lists (to help with the funding).

Joe Johnson-Yes. We have installed larger pipes to help address some of these issues south of here and near the golf course.

Unidentified Resident: The choo-choo train didn't start moving until this morning, this happened over a month ago. So we're trying to push it harder and get it moving.

Chair Rawlings, asked Joe to tell the group the different steps that are involved to get a project constructed.

Joe Johnson-We have three projects we are looking at today. Assuming the Council permits staff to go ahead and work with Johnson County. Johnson County has a program through their Stormwater Management Advisory Committee. There is a quarter cent sales tax that funds stormwater projects. With this type of funding, the County provides 75% funding and the City provides 25% of the funding for the construction. They also require and have funding for Preliminary Engineer Studies, which are needed to come up with alternate designs and costs to address the issues we are looking at.

In today's review, we have two sites we think will qualify for the County's funding and one site may not. If we get the go ahead, we will send out letters to residents in the area and ask them about any flooding issues. The County wants this information because if we spend their money, they want to know that if we fix the system that everything is fixed within the defined area.

Marsha Monica-Would you consider these an emergency situation?

Joe Johnson-Well to everybody it is an emergency.

John Kahl-We are in the millions of dollars range to fix this, and they don't always have a spare million dollars to fix it on an emergency situation. It will be some time before a fix is ultimately constructed.

Alec Weinberg-Can you go through the timing period for the Engineering Study and how long that takes? And for it to get into the CIP and how long that takes.

Joe Johnson-If Council approves this, then we start work that week; we will then send out notices. Once we get the information back, we will score the area and submit that to the County. Assuming that is a

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month or two months; where the County says they are in agreement. The next thing we do is work with the Council and our budget. We would enter into an Interlocal Agreement through the County. (After they are in agreement that it qualifies for SMAC Funding). This is just the paper work. At that point they agree for us to hire an Engineer and pay 75/25 for them to come in and look at the rainfall intensities. And based on the events that have caused this, then we figure out the options in design. The County wants three different alternatives. There may not be three ways to fix it, but that is what is looked at. The engineering firm will do a preliminary design and cost estimate. The City submits that to the County (and this may take 4 or 5 months) (at the same time we are still working with property owners to come up with a final plan) and we will present it to them showing them what we agree is the best fix. Once that is done, then the plan is programmed through the County's SMAC Program. Then we get on the list. Then we have to wait until our project is high enough on the line that the County says for an upcoming year, they are going to fund us.

John Kahl-So the procedure we end up with could be 2 to 4 years out. So to expedite this we would need to have all of that wrapped up prior to the next programming cycle.

Joe Johnson-Yes. Generally it's about 2 years, once you are on the County's list for a project.

Unidentified Resident-All of us here as homeowners understand there is a process we have to respect. What we really want is to prioritize this as an emergency. Two of us are physicians, and someone is going to die out there. We are lucky it hasn't happened yet. You haven't lived until the Leawood Fire Department has gone in a raft across your front yard to rescue somebody who was inside a car that has flooded. That is what we are talking about.

Unidentified Resident-We were on call and we couldn't even get out of our driveway, our neighborhood.

Unidentified Resident-Understand personal convenience doesn't mean much in a big bureaucracy but there is a major safety issue here. If you can impart some sense of urgency, through the bureaucracy that is really what we would like.

Joe Johnson-Yes. And that is our intent. We don't want to drag it out any further. We'd like to get to it as soon as we can. When we are looking at this, it is potentially a million and a half dollar improvement.

Unidentified Resident-We understand but millions of dollars are being spent on curbs and sidewalks that aren't emergencies.

Unidentified Resident-We have been near the golf course when that work was done and Leawood City did a fabulous job once they could make it happen. We have an issue from our point of view and not sure this is a normal meeting for the Committee. But we have a lot of folks showing up that are passionate about the value of their houses, but more importantly the safety aspect. There are little kids across the street running around and worry about what can happen. It's hard to sleep at night thinking about it. What can we do to help with the County? Is there anything?

Joe Johnson-No. We looked at it initially and it quickly meets the minimum points to qualify, we just need to go through the formal process which takes a couple months. But understand this is not the only area that floods. Tomahawk Creek Parkway flooded the last three rains. We have had to rescue drivers off of Tomahawk Creek Parkway. We are looking at another one at 129th Street in Waterford. Identical

to this. Another one we are to look at flooded the street and in pictures water was up 4 to 5 feet on the side of the house. So believe me, this is not the only issue. We could spend \$50 million on fixing all our issues. These three we are looking at are the ones that when we looked at this, we wanted to bring to the attention of the Council to get the green light to go. So staff is trying to recognize these three projects as projects that we need to bring forward and be able to move on finding a resolution for.

Joe Johnson-Regarding the area in Waterford. The street flooded and just the street flooding does not qualify for a lot of points. But we are going to send notices out to see if there are any properties that flooded that we are not aware of. If there are, then it will be given more priority.

John Kahl-Could you tie it together? Because if you fix one, it will flood the other location.

Joe Johnson-We are going to talk to them about that. Joe points out the third area of review.

Chair Rawlings-Comments regarding stormwater. He has complete sympathy for how you feel. He experienced the Plaza Flood of 1977 and he lived in Prairie Village at the time. His basement completely filled up with water to the ceiling. It had to be pumped out the first night then it rained 14" again the next night and it filled up again. He was on the low end of the block and it finally got fixed but it took 2 ½ years. There is a process, unfortunately even though we are talking about an emergency, it takes time. In fixing this, we do have to come up with the money and at some point in time, the funds to pay for this are not in 2014 budget.

Unidentified Resident-We're not going anywhere, we can't sell our houses now.

Unidentified Resident-Do you still live in your house that flooded?

Chair Rawlings-No, I lived there for about 4 or 5 years after it was fixed.

Joe Johnson talked about the next area at 126th Terrace & Delmar. The big problem here is an enclosed pipe system that goes to an open channel and then it goes back into a closed pipe system, to an open channel again and then underneath Roe. The homes in this area are flooding (in Patrician Woods).

Unidentified Resident-Speaking to this thought there were eleven home owners who had water coming in over foundation walls. To give you a feel for a solution the City might want to consider. In particular, recently 127th Street was redone. There are culverts under 127th Street which were enlarged. Now you have a 60" and a 40" culvert adjacent to each other going under 127th Street. They empty into a 36" culvert that crosses underneath Delmar. How can you take that much culvert and condense it into one. I think there is a solution (maybe a pony in the barn here). First of all, that was miss-engineering. Whoever engineered 127th Street and those culverts. I don't know if it was the City or a private firm, but one of those needs to take responsibility for miss-engineering. Second: To the east of me, Aintree owns a piece of property that the culvert goes through. They have been trying to give it to me or to the City or anybody that will take it, because they do not want to cut the grass on it. That would be a wonderful water retention area; which would ultimately, since there is some back up into Cherry Creek because there is not enough space. That's free land to do a retention area on. So you could meter the amount of water that's pressed into this system that some of the people are experiencing downstream. Eleven residents that took in water through their foundation walls as a result of that storm. It is very interesting. WE had a modest rainfall this past week; the culvert going adjacent to my house underneath

the street (which is a 36" corrugated pipe) was full. And that was not a major rainfall. That was not a 100 year cycle. It was full. We took water above the creek level at 11 ½ feet above the culvert. And that mostly is because of the re-engineering of 127th Street. Yes we've had storms in the past (I've been here 19 years) but this has changed the dynamics. The engineering of 127th Street. Who engineered 127th Street? The culverts under there? This past year?

David Ley-We did. We matched the size of the pipe that was under 127th Street.

Resident-apparently it is open because you are putting a lot more water down there into a 36" pipe.

David Ley-We got a complaint from the people up stream that we downsized the pipe because they flooded upstream.

Joe Johnson-We had corrugated pipe and all we did was replace the corrugated pipe with the same size concrete pipe.

Resident-I think you may have cleaned it out then. The problem is you are putting way too much water into a 36" corrugated pipe. You can't do it. There is a solution. I think there's a pony in the barn with that space that they have been trying to give to the City.

Joe Johnson-Well there is not enough space there to do a detention of any size that would have any benefit. It would fill up just like that.

(Several people talking at once)

Alec Weinberg Motioned to recommend to ask the City Council to submit to the County all three locations discussed today (12615 Wenonga, 3504 W. 129th Street, 4301 W 126th Terrace); possibly piggy-backing them together as the same watershed area. And to request the review of these locations on an expedited basis; in getting these on the County's list and Leawood's list of programmed stormwater improvements.

John Kahl seconded the Motion; all attending members in favor.

Motion passed.

Staff advised the Committee's recommendation would be sent to the Council the second meeting in August (August 19, 2013) for approval.

Joe Johnson- To the residents in attendance, two of these projects the pipes we are talking about are corrugated. The City is looking at spending 35 million dollars to replace corrugated pipes. So this fits hand in hand with that. The Council is aware of our corrugated issues and have already looked at how to start programming that 35 million dollars. The thought process is 5 million dollars for the next 7 years. So if we can get a SMAC project that funds 75% of it, then these projects may not be so far off in the distance. We may be talking much sooner.

Unidentified Resident-Asks about the current Roe Construction; where a culvert was placed across Roe at 120th; where the road was closed.

David Ley/Joe Johnson-Advised that construction was in Overland Park. That too was an old corrugated pipe that had issues. Since we were redoing the road with a mill & overlay repair, it was done with the street and curb work. Overland Park paid 80% and Leawood paid 20% in that area.

Unidentified Resident-How did Overland Park get involved?

Joe Johnson-That area is in Overland Park. The apartments are in Overland Park. Crate & Barrel is in Leawood, but everything south of that to the bridge is in Overland Park. Leawood only owns a small portion of that area.

David Ley-We even own park land in Overland Park.

Chair Rawlings-A couple of meetings ago we had a work session on Corrugated Pipe that lasted an hour and half. I learned more about pipe than I ever wanted to know. But we learned that it is failing. It was a standard at a time.

Joe Johnson-Yes. Back in the 1970s it was installed and has now past its life. Estimates are \$35 million to fix all the deteriorated corrugated pipe in the City. Most of the area is from 119th to 135th that used corrugated pipe. One Hundred and Six Thousand Feet of pipe to replace.

Julie Cain-Fortunately the City of Leawood is in a position where we can even do or make this type of commitment. There is not another City in Johnson County that would be able to forecast this out as an expenditure. That is because of our sales tax and our corporate taxes. Many other localities do not have this ability.

Resident-Mentioned an article he read about a liner for pipes. Where a liner is placed inside a pipe and the pipe wouldn't have to be dug up.

Joe Johnson-Yes. If the pipe is deformed then you rip it out of the ground and replace it. If the pipe is in fairly good shape and there is no capacity issue with the pipe, then you can look at a liner. Depending on the size of the pipe 24" in diameter or smaller you can do an "Insituform" liner. Similar to sanitary sewer linings we have done. You thread a liner through it and you heat it up with water and it expands it and the hot water then makes the residue soft and it adheres to the pipe. It makes the pipe much smoother so it has the same or maybe a little better capacity. The larger diameter pipe they use different processes and sometimes it reduces the inside diameter by 2 to 3-4 inches. Those would be the areas that we would have to look at to make sure that doesn't create capacity problems. If it did, then we would have to look at replacing those.

Chair Rawlings-And all those different processes will be looked at.

Joe Johnson-Yes, we will look at everything.

Julie Cain-Thank you for your patience with all of this. We're sorry. I do understand. She was in Curly's house that morning and they called me up, and it makes you cry to see it. We do understand, honestly. And we will accelerate it as much as possible. All three of these projects.

Unidentified Resident-I want to thank you very much for doing this and listening to our complaints and for agreeing to expedite this. You know it is a May situation. The thing we've seen over the past several years is pretty much year-to-date; May that we have this. The five times we've seen this it has always been in May. So if you can get this through before May that will be good.

Chair Rawlings-Well you are on the list to move forward.

Julie Cain-Asked Joe to tell the residents the good story about the rain event.

Joe Johnson-In the Timers Edge subdivision in Overland Park, the water came up and the stormwater

blew the lid off of the manhole in a property owner's back yard. They let their 13 year old yellow lab out and the dog had bad eyesight. The dog walked on top of the inlet and fell into the inlet and ended up in Leawood. They ended up calling Public Works and by using our GIS maps, we could tell them where all the manholes were. So the guys went popping the lids and the second or third one they popped, they looked down and saw the dog's eyes looking at them. So they found the dog and all ended well. The dog was fine.

Julie Cain-There were several manholes that popped up and the lids blew off. We have never had that. Not just Leawood, in Overland Park as well.

Joe Johnson-Yes May 31, 2013, was the worst flooding we've had as long as we can remember. We had streets flood that never have flooded before. Between 135 and 151st we had 1.86 inches of rain in one hour. So a 100 Year Event is 1.88. And then from 135th to 123rd it was 50 year rain fall intensities in that one hour period. Mission Road at 146th flooded-126th flooded-Normandy Place had four homes flood (in 40 years, no one has ever flooded, but they had 4 houses flood). Motorists were rescued on Tomahawk Creek. A traffic signal controller flooded out.

Chair Rawlings-The parking lots at the City Park were under inches of silt.

Unidentified Resident-How is the Fire or Police Department trained for going into water when there is a potential of being electrocuted? What is the caution, do they have a meter they can test to see if it's electrified? Or do they just go walking in?

Joe Johnson-No. I've been in back yards where the water has been up to the fence and in hip waders and was standing right next to a power line. They are supposed to be grounded.

Unidentified Resident-asked if with the information they have provided of their emails etc. Can the residents be updated of the on-going progress? It is advantageous for us to attend the Council Meeting and present our case there?

Julie Cain-It will make a difference, to be honest, because we have heard your case here. And this is the procedure to have it heard. You are always welcome to attend a Council Meeting. And Staff can let you know about the date. And you can always contact your council people to voice your concerns. The Council Members are in wards, but you can talk to any of them.

Joe Johnson-After it is passed by Council, when we go through the application process, we will send out a post card to the residents to make sure we know of all the water issues. We will put all that information in our submittal to the County.

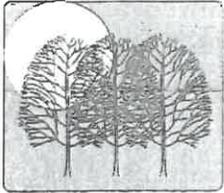
Chair Rawlings adjourned the meeting at 8:37AM.

Minutes transcribed by Julie Stasi, Leawood Public Works Department
DS300034.wma

Contacts for July 31 Stormwater Meeting

Howard Collins	12611 Wenonga Lane	Leawood, KS 66209
Fred I. Rieke and Carla Rieke	12614 Wenonga Lane	Leawood, KS 66209
Dr. Mary Nagy and Rick Mundis	12615 Wenonga Lane	Leawood, KS 66209
Charles E. Joseph	12616 Wenonga Lane	Leawood, KS 66209
Dave and Kathy Winingger	12617 Wenonga Lane	Leawood, KS 66209
Toby Boschert	12725 Wenonga Lane	Leawood, KS 66209
Cheryl Schmidt	12607 Delmar	Leawood, KS 66209

*Phone: 913-892-1111
 & emails hidden*



City of Leawood

4800 Town Center Drive • Leawood, Kansas 66211 • (913) 339-6700
(913) 339-6781 Fax

June 21, 2013

Mr. and Mrs. Fred L. Rieke
12614 Wenonga Lane
Leawood, KS 66209

RE: Flooding on Wenonga Lane/Leawood South

Dear Mr. and Mrs. Rieke:

Our office has received your letter of June 20, 2013, addressed to Mayor Peggy Dunn and City Councilmembers regarding water run off problems on Wenonga.

The City Council has assigned to the Stormwater Management Committee the review of your concern and report back to the Council their recommendations. The next scheduled meeting of the Committee is set for **Wednesday morning, July 31, 2013**. The meeting is open to the public and will be held at Leawood City Hall in the Main Conference Room at 7:30 AM.

Your letter did not indicate any way to contact you other than mail. If you would like to send me a phone number or e-mail address for future notifications, please do so. You can reach me at 913-339-6700, x133 or email of Julies@leawood.org. If not, our office will send you a Meeting Reminder notice as we get closer to the meeting date.

Thank you for sending us your concerns. We do also have contacts with other residents in your neighborhood who plan to attend the meeting.

Sincerely,

Julie Stasi
Administrative Services Manager
Leawood Public Works Department

cc: Mayor Peggy J. Dunn
Councilmember Jim Rawlings, Chair Stormwater Committee
Joe Johnson, P.E., Director of Public Works

Mayor and City Council Members

6/20/13

4800 Town Center Drive

Leawood, Kansas 66211

Ref. Water run off problems 12614 Wenonga Ln. and surrounding neighbors

My wife Carla and I have lived at 12614 Wenonga since 1992, in that time I have seen our street flood five times. I dismissed it at first but every time it has gotten worse to the degree the last time three weeks ago the street got so deep it backed up over my foundation and flooded the floor in my finished lower level.

Our home was probably one of a dozen that saw the street over three deep with backed up rain water. I called David Lay and left a message along with the person below him, no return calls were made to me at all.

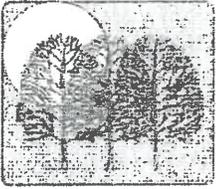
I believe that the depth of the water is proof that our problem is getting worse as time goes by. I am sure that the City of Leawood is aware of this because there have been Firemen and Police dispatched to the location to keep cars from floating into the water.

I think it is time for this Problem to be addressed instead of just blowing it off.

Sincerely

A handwritten signature in black ink, appearing to read "Fred I. Rieke". The signature is stylized with large, flowing letters and a prominent flourish at the end.

Fred I. Rieke



City of Leawood

4800 Town Center Drive • Leawood, Kansas 66211 • (913) 339-6700
(913) 339-6781 Fax

June 21, 2013

Mr. Charles E. Joseph
12616 Wenonga Lane
Leawood, KS 66209

RE: Flooding on Wenonga Lane/Leawood South

Dear Mr. Joseph:

Our office has received your letter of June 19, 2013, addressed to Mayor Peggy Dunn and Councilmember Julie Cain regarding flooding on Wenonga.

The City Council has assigned to the Stormwater Management Committee the review of your concern and report back to the Council their recommendations. The next scheduled meeting of the Committee is set for **Wednesday morning, July 31, 2013**. The meeting is open to the public and will be held at Leawood City Hall in the Main Conference Room at 7:30 AM.

Your letter did not indicate any way to contact you other than mail. A phone number was searched for, however a call to that number did not answer. If you would like to send me a phone number or e-mail address for future notifications, please do so. If not, our office will send you a Meeting Reminder notice as we get closer to the meeting date.

Thank you for sending us your concerns. We do also have contacts with other residents in your neighborhood who plan to attend the meeting.

Sincerely,

Julie Stasi
Administrative Services Manager
Leawood Public Works Department

cc: Mayor Peggy J. Dunn
Councilmember Julie Cain
Councilmember Jim Rawlings, Chair Stormwater Committee
Joe Johnson, P.E., Director of Public Works

June 19, 2013

Peggy Dunn
Mayor, City of Leawood, KS
4800 Town Center Drive
Leawood, KS 66211

RECEIVED
JUN 20 2013
PUBLIC WORKS

Re: Flooding on Wenonga Lane/Leawood South Subdivision

Dear Ms. Cain:

I've lived at 12616 Wenonga Lane since 2007 and in that period of time, Wenonga Lane, that runs in front of our home, has flooded four (4) times. The most recent flooding that took place on May 31 of this year was the worst of the four. This flooding is becoming more severe and is an accident waiting to happen. It must be dealt with by the City.

This recent flooding, as well as past flooding, has caused considerable damage to my neighbors property and presents a deadly threat to anyone that ventures into it. During the flooding on May 31, there were two stranded cars on our street. Water had risen to the windshields in both vehicles. The flooding reached beyond the curb lines into front yards and into homes causing real property damage. Water covered the bases of light poles, which increased the risk of electrocution for first responders looking to assist motorists. Additionally, the water is moving very fast and the risk of drowning is real.

In speaking to neighbors who have lived here longer then we have, the frequency of this kind of flooding is increasing and becoming more serious. I don't know what needs to be done but it is obvious that this issue needs to be addressed by the City of Leawood.

Your response is requested.

Regards.



Charles E. Joseph
12616 Wenonga Lane
Leawood, KS 66209

2

Julie Stasi

From: Rick Mundis
Sent: Thursday, June 20, 2013 4:41 PM
To: Julie Stasi
Subject: Lake Weninga

The last few frames if the video I sent you show the roof of a car. Leawood City Police came out around 5:30 AM that day to be sure no one was inside the car. Water was up to the windshield wipers. Last year the fire department came out in a boat to rescue a stranded passenger!

Sent from my iPhone

12611 Wenonga

Mayor and City Council Members
4800 Town Center Drive
Leawood, Kansas 66211

June 11, 2013

Ref: Lake Wenonga

"People we have a problem"..... I've lived at 12611 Wenonga for the last twenty five years and my driveway has acted as the spillway when the lake forms after particularly heavy rains. This past flood has exceeded all previous records. This is alarming and is an accident waiting to happen.

This recent flooding, as well as past flooding, has caused considerable damage to my neighbors property and presents a deadly threat to anyone that would have to venture into it. Street light poles and their electrical wiring that is flooded could electrocute first responders that always seem to be called to help some hapless motorist. Drowning is also a real possibility to the young or elderly.

We need to have your civil engineers review the area and the lack of adequate curb vents to handle this volume of water. Presently we have two 10" x 60" and one 10" x 90" curb vents that are in the boundaries of the lake when it forms. Three vents just don't work!

Please consider replacing the two smaller curb vents and also adding a fourth vent directly across from the existing 10" x 90" vent.

Your response is urgently requested.

Attached photos are of the May 31, 2013 flood.

Respectfully yours,

Howard Collins
12611 Wenonga Lane
Leawood, Kansas 66209

12614 Wenonga

Mayor and City Council Members

6/20/13

4800 Town Center Drive

Leawood, Kansas 66211

Ref. Water run off problems 12614 Wenonga Ln. and surrounding neighbors

My wife Carla and I have lived at 12614 Wenonga since 1992, in that time I have seen our street flood five times. I dismissed it at first but every time it has gotten worse to the degree the last time three weeks ago the street got so deep it backed up over my foundation and flooded the floor in my finished lower level.

Our home was probably one of a dozen that saw the street over three deep with backed up rain water. I called David Lay and left a message along with the person below him, no return calls were made to me at all.

I believe that the depth of the water is proof that our problem is getting worse as time goes by. I am sure that the City of Leawood is aware of this because there have been Firemen and Police dispatched to the location to keep cars from floating into the water.

I think it is time for this Problem to be addressed instead of just blowing it off.

Sincerely

A handwritten signature in black ink, appearing to read "Fred I. Rieke", written in a cursive style.

Fred I. Rieke

12615 Wenonga #1

-----Original-----
From: IT
To: gar,
Sent: T,
Subject: "Lake Wenonga"

Hi Gary,

I live in Leewood South on Wenonga and our street has had a recurrent problem of flooding with a Lake forming in front of our house for years now. On May 31st this year, the flood reached over 5 feet and this is the third year in a row our finished basement has flooded. Cars get buried and float down the street. Last year the fire department had to float a raft to extradite someone from their car that had water to the roof.

The street gets shut down. We are the low point of the neighborhood and get all the run-off from the golf course and surrounding areas including the creek. Our storm drains are too small to handle the amount of water that swells in flash flood fashion.

We feel this situation has become extremely dangerous to cars, people and first responders.

I called last year and spoke with David Roberts several times but nothing got done.

We have pictures and videos, have spoken with our neighborhood homes association committee and a letter has been sent to the city council and Mayor Dunn.

We desperately feel this has high priority and needs to be addressed now before a fatality occurs.

I would greatly appreciate your response.

Sincerely,

Mary Nagy

Mary C. Nagy, MD, FAAP

12615 Wenonga #2

Email from Rick Mundis; photos did not transmit; asked him to bring to meeting if possible

12t

> -----C
> From
> Sent: Thursday, June 20, 2013 4:41 PM
> To: Julie Stasi
> Subject: Lake Wenonga
>
> The last few frames of the video I sent you show the roof of a car. Leawood City Police came out around 5:30 AM that day to be sure no one was inside the car. Water was up to the windshield wipers. Last year the fire department came out in a boat to rescue a stranded passenger!
>
> Sent from my iPhone

12617 Wenonga

----- Original message -----

From: Dave & Kathy Wininger

Date: 06/17/2013 9:35 PM (GMT-06:00)

To: Peggy Dunn <peggyd@leawood.org>

Subject: May 31, 2013 Flood on Wenonga

Peggy,

I know you have been contacted by our next door neighbors Rick Mundis/Mary Nagy about repeated flooding in our street -- and ergo in our homes. I am sending you a couple of photos in front of our houses in hopes that you might forward them to the appropriate departments or committees. These photos were taken when the water was receding as the car shown in the street actually had water covering its windshield earlier when the Leawood Police checked on it.

This is the 4th time we have witnessed flooding of this magnitude at our house. Hopefully the experts who manage the storm water system in Leawood can resolve this situation. Thanks in advance for your assistance in this matter.

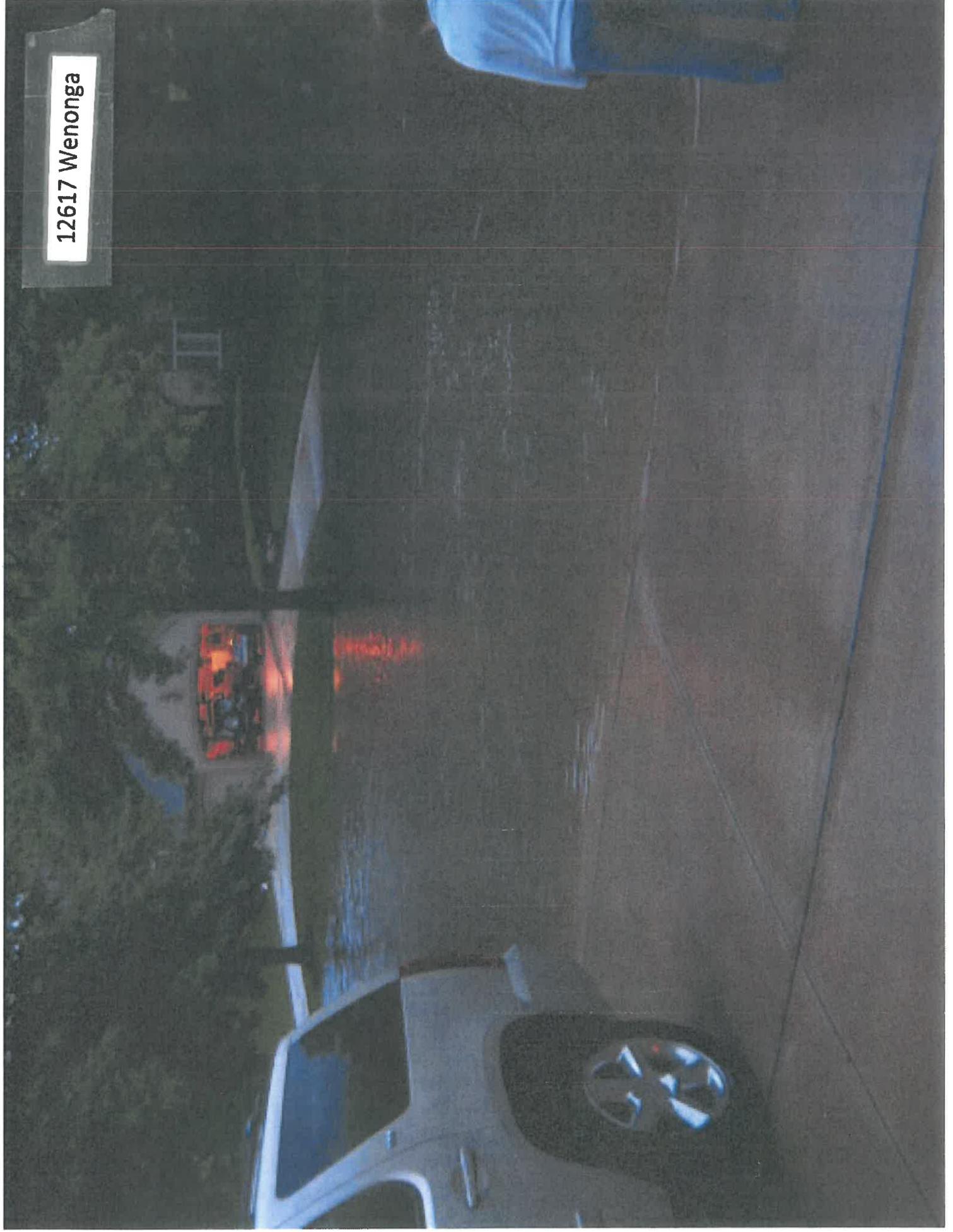
Kathy Wininger

12617 Wenonga Lane

12615 Wenonga



12617 Wenonga



12725 Wenonga
(no pictures transmitted to this copy).

Toby,

Joe Johnson indicated there were approximately 4-5 locations where the street flooded several feet during the recent rain events, 3-4 of these in Leawood South. The cost for additional pipe that would be required to alleviate the flooding is estimated to be around \$1 mil and some of these areas may be eligible for SMAC (Stormwater Management Advisory Commission) funding. It was decided that the best course of action would be to refer this issue to the Stormwater Committee to make a recommendation on how to proceed. The Council Chair of the Committee will make the recommendation at the next Council meeting on June 17.

You are welcome to comment at the beginning of the Council meeting during public comments and certainly may want to attend the Stormwater Committee meeting when it occurs.

Carrie

Carrie Rezac
Councilmember War
66209 h

From: Toby Boschert
Sent: Tuesday, June 11, 2013 9:20 AM
To: Carrie Rezac
Cc: 'Tracy Boschert'; 'Toby Boschert'
Subject: RE: Leawood South 5/31/13 Pics-1

Carrie,

These pictures show flooding down the street on Wenonga Lane, and seem to be caused by a combination of factors, based on conversations that I have had with folks from the City of Leawood and Leawood South neighbors. I had a chance last week to speak with David Roberts, Leawood Civil Engineer, and it still seems to me that the old small sewer lines from our front yard to the creek on the number sixteen hole of the golf course are a contributing factor to this issue.

Carrie, thank you for your follow-up, and is there a resident advisory board that I could get involved with to help with this issue?

Toby Boschert
Boschert & Partners
12725 Wenonga Lane
Leawood, KS 66209

12607 Delmar

12607 Delmar asked to ask about the Stormwater Committee scheduled for July 31, 2013.

"-f-

com>)

Mrs. Schmidt said she had spoken to Councilmember Azeltine about the flooding in her street and he had indicated a stormwater meeting that was coming up.

Ms. Schmidt's address is 12607 Delmar, which is roughly 9 or so blocks to the west of the Wenonga area. Ms. Schmidt said they had had the engineers out several times and when it rains it is terrible. That her neighbors fence is always full of debris from the high water.

Julie,

I discussed this property with Joe in advance of the council meeting when they were referred. At that meeting, I asked Joe if these (there are actually two on this block) would be included in the discussion at the July 31st meeting. He said they would be.

Please keep me posted.

James Azeltine
Leawood City Council

four (4)
Wenonga Pictures
JOE will show
at meeting.

Water Line







