

Working Notes

A meeting was held in Town Manager Barbara Gilbert's conference room on Friday, April 9, 2010 at 1:00 p.m. Those present were: Town Manager Barbara Gilbert, Councilor Tim Moriarty, Rich Cooke (Director of Facilities), Jim Sollmi (Director of Highways/Engineering), Al Seagrave (All-Phase Enterprises), Mitch Cropley (All-Phase Enterprises), Angela Cahill (Schoenhardt Architects) and Terri Hahn (LADA) .

Town Manager Barbara Gilbert called this meeting to order at 1:07 p.m. She explained to everyone that because Councilor Tim Moriarty of the Town Council was present that she had to have Minutes taken of this meeting. Town Manager Barbara Gilbert said she asked Jo-Anne Booth to join this meeting so that she could take Minutes of what transpired today. Town Manager Barbara Gilbert said she has gotten in trouble with other meetings with regards to Minutes not being taken where Councilor Tim Moriarty was invited in as an Elected Official

Councilor Tim Moriarty said he asked Town Manager Barbara Gilbert to have this meeting because awhile back they had met at the library and everyone had agreed upon different issues. A guesstimate had been produced as to what had happened there. There had been a Government Operations Committee meeting this past Monday and the issues over there had been reported to this Committee's members. Councilor Tim Moriarty said what they are looking at now is where the Town stands, what needs to be done, what is going to be done and what the timeframe is. There has been talk about cores and he knows the insurance company isn't going to do anything without trying to figure out what happened as to whether this had something to do with the installation or if it was an inferior product (with regards to the cement issue at the library).

Town Manager Barbara Gilbert said she asked Jim Sollmi to come to this afternoon's meeting because he is the Town's sidewalk and cement expert. Town Manager Barbara Gilbert mentioned that Jim Sollmi has a PE and he is the Town's Director of Engineering. Jim Sollmi oversees the installation of all of the sidewalks in this Town as well as the maintenance of them. Town Manager Barbara Gilbert said Jim Sollmi was the perfect person to ask to join them seeing this is a cement issue. Town Manager Barbara Gilbert said she has certain questions relative to additional borings and weaknesses, etc. She was bringing the experts in and this is why she asked Jim Sollmi, Councilor Tim Moriarty and Rich Cooke to be present. They were present so that she will have a clear understanding when she makes her decision. She can't make this on just one individual's commentary or "in a vacuum", etc.

Councilor Tim Moriarty asked everyone where they stand with this and what the resolution is to have this issue fixed. Al Seagrave said the first and foremost thing is to find out what caused this. It appears that everything is in order upon a cursory review of tickets and information they collected (i.e. specs that were provided, etc.) but he said it doesn't mean that it is. At first glance, it looks like entrainment is the issue. He explained that air entrainment is placed in concrete to allow it to dry faster. He asked Jim Sollmi if he wanted to comment on this issue. Jim Sollmi said that is also used for the

prevention of spalling. Al Seagrave said exactly. Jim Sollmi said they would want to put a 7% air entrainment into it. He asked if he could get this straight for his own information. He looked at the sidewalks at the library yesterday. He asked everyone if they were talking about the four or five slabs that were at the top. Al Seagrave thought they were talking about an area off to the right hand side. Jim Sollmi said this is where he noticed it and he also noticed an area along the wall on the left hand side where the railing is. It wasn't properly troweled to him and he said it looks like it was put in very rough. He said maybe the forms were deep so that they couldn't get down there to smooth it out. This is what the left wall looks like.

Town Manager Barbara Gilbert said she never gave Jim Sollmi a specific area to look at because she had wanted him to look at the whole thing and form his own opinions. Jim Sollmi said his opinion is that this wasn't finished very well. One slab has a piece of wood in it that is exposed and it just doesn't look like it was finished. He told Al Seagrave that it is a new one on him if he is saying that the air entrainment did this because he never heard that before.

Al Seagrave said with a broom finish that the finish is being steel troweled as the concrete is drying but the finish is not being burned on it. The broom is being pulled across it in order to create a rougher surface. The surface ended up the way it was requested. He didn't think there was an argument that a broom finish wasn't put on this. He asked Jim Sollmi if he was saying there are different techniques they should have been employing that they didn't use because they were following all of the curing directions that they were given. Jim Sollmi said no and he said from experience that this looked like it just wasn't finished very well. It didn't look like it was smooth and it didn't look like it was troweled enough. He said it is just sloppy stuff when organic material starts getting in there. Al Seagrave explained what the organic material was. Jim Sollmi said if this job is finished then it is unacceptable and the slab has to be taken out because he wouldn't want it in there. The other side by the wall just wasn't finished. Al Seagrave said the specifications called for a particular technique with regards to how to finish the walls. They had to leave the forms on for so long and they were only allowed to rub them. No parging, etc. was allowed. They typically do this differently for finished concrete that is exposed but they weren't allowed to by the specifications so they didn't do it differently. Mitch Cropley said it was only allowed to be wet rubbed. Al Seagrave said the installing contractor who they used on this project has been in the business for a long time. The contractor will take his blame and Al Seagrave said they will work with everyone on resolving this issue. Jim Sollmi said he didn't know the specific specification. He said they just did the bridge at the same time the library project was being worked on. The forms were there. People came in and troweled it and parged it. It looks gorgeous. Al Seagrave said parging is a different technique than they what they were allowed to do. Jim Sollmi said that was true but he said it doesn't look like it was even troweled. It looks like the forms were left and he told Al Seagrave that they could have done a much better job in smoothing it out in his opinion. Al Seagrave said he wasn't saying that it wasn't like that before they experienced their spalling either.

Town Manager Barbara Gilbert said spalling is a serious concern to her. Jim Sollmi referred to the spalling and he said this could be because it was troweled so much. It looks like a thin layer and this is an installation problem to him. He said from just looking at it that this wasn't done properly.

Al Seagrave said fine and he said this is part of the game. He told them that they have to tell him what they want him to do. They have to determine what caused this. They are going to be back at square one if the applications of deicers are causing this then they go to fix it and it happens again. He told them to tell him what they want and where they should be going. They can figure this out from there. The Engineer can suggest different methodologies for how to repair this in all reasonability short of tearing this all out. Al Seagrave said he will be forced to go somewhere else (i.e. through insurance routes, etc.) if they want this all torn out in order to determine who is culpable. This is where it will get into if the material is bad or if the install is bad and where it will get into corings. This is a lengthy process on a process. He is willing to work with everybody and he was saying for them to try to solve this.

Town Manager Barbara Gilbert said she has another building that all she is doing is chasing repairs on. It has become problematic to the point that they are going to end up replacing those stairs. That replacement will probably be a \$250,000 one. She explained that this is a brand new set of stairs. Al Seagrave told Town Manager Barbara Gilbert that he was agreeing with her. Town Manager Barbara Gilbert said she already has problems that she is having on twenty-nine year old stairs. She finds this unacceptable and she wants this replaced. Al Seagrave said this is fine but he asked who is culpable for this if this had occurred through other means. They will call the concrete guy to deal with this if the concrete is bad and they didn't meet specifications. Al Seagrave said they will work with the concrete guy, Town Manager Barbara Gilbert and Rich Cooke to solve the problem. If the install is the bad problem then they will fix this based on that. They will have to evaluate this if the problem is the applications of deicers which caused this to freeze and snap because there is a lot of documentation out there available to all of them with regards to this. They can make sure this never happens again once they determine what caused this. They can then come up with a great methodology on how this can be repaired or replaced.

Town Manager Barbara Gilbert said there was an application of a treatment and she asked who recommended having this put on the stairs. Rich Cooke said this was Salt Guard. Mitch Crolley said the concrete supplier recommended having this put on the stairs. Al Seagrave said this doesn't make this go away. Councilor Tim Moriarty thinks if this was the issue then this would have happened everywhere and that it wouldn't have been in certain areas. Al Seagrave said no. He told them he could share any information that they would like. He referred to concentrations of salt and leaving it on. It is said that this has to be applied and then they have to get rid of it right away. They open themselves up if this isn't done in this methodology. He said for the sake of the conversation that this was green concrete even at the point when the Salt Guard was applied. It is almost six months before concrete is cured and this depends on the weather as well as humidity, etc. Different methodologies could have been employed to make

sure they didn't have problems but he said this is all in hindsight now. They just have to move forward.

Angela Cahill said Al Seagrave's point is that they are going to core sample this anyway regardless of how they proceed. They are looking for a complete replacement. From a design professional standpoint, they will need to call for a complete replacement if the mix is bad. If the install is bad, they are only required to call for a replacement of the top portion which is failing now. This is not what they want from an aesthetic perspective so it is going to be difficult to get the insurance company to pay for the complete replacement if the install is the problem. The insurance company is going to come back to them and say they want the core sample anyways unless they prove they know what the problem is because there are different defects in different locations. She thinks it is prudent for them to go ahead with the core sampling.

Town Manager Barbara Gilbert said she understands about the core sampling. She wants Jim Sollmi to tell her if they can determine where they want the core sampling done so that it doesn't create further deterioration, etc. Al Seagrave said from a structural point of view that this is a four inch or six inch slab. He said the apparent issue has taken place over by the drain. Angela Cahill thinks this is a dusting issue and it is in one area. Al Seagrave said it seems to be a superficial spalling issue that is taking place over at that location. Angela Cahill thinks it is a dusting issue that happened in that location but she thinks the kneewalls are a different issue. Town Manager Barbara Gilbert said the kneewalls are a very different issue. Angela Cahill said the kneewalls are like a scaling or a de-lamination type of thing. Councilor Tim Moriarty said this seems to be getting worse on the kneewalls from the last time they looked at it. Al Seagrave asked if they were talking about the posts where the hand rails go up. Angela Cahill said yes and she said they are talking about the kneewalls on either side of the stair. One side is worse than the other but they are both experiencing the larger scaling issue. The dusting is very fine, almost like chalk, and they had seen this just a couple of days after it happened. They remembered having the problem with the water that was coming down from that drainpipe. It might not have been an install issue at that location because they had the blockage in the pipe so this could have caused more of a problem. She said it will be pretty easy to core sample the landing where the dusting is because they know what to do there but it is going to be messy to core sample the kneewall.

Town Manager Barbara Gilbert asked what the issue is with the blockage of the pipe. Angela Cahill said there was a leak in that area. Mitch Cropley said there seemed to be a blockage in the drain pipe that was coming down from the downspout through the slab under. Tests were done afterwards and he explained more. Nothing ever appeared to be blocked. Angela Cahill said they got some water ponding across that area on the fairly new concrete and there was an issue even though there is a drain there. She thinks this was after twenty-eight days. Jim Sollmi asked about the cylinders and Angela Cahill said all of the test reports were fine. Al Seagrave said on site air testing was done. Angela Cahill said even though the test reports were okay, the core samples will tell them if the air entrainment wasn't correct. Al Seagrave said he is willing to pay for this testing from a different testing agency and he has already contacted some to get some pricing. Angela

Cahill said they want to make sure they are certified petrographics. Al Seagrave said they are all certified. One of these is local and one of these is Materials Testing. Angela Cahill said they will end up sending out the samples. Al Seagrave spoke about them fixing things all day but not making the problem go away. Councilor Tim Moriarty told Al Seagrave that he was right and even if something is replaced, the problem can come back if they don't find out what it is.

Angela Cahill said if it is a bad mix then they can say to replace the top. Rich Cooke asked if there were sections that didn't test okay. Different people spoke at the same time with regards to this.

Town Manager Barbara Gilbert asked Councilor Tim Moriarty how they do the testing. Councilor Tim Moriarty said he didn't know how they do testing for air infiltration. Town Manager Barbara Gilbert asked if a sample is taken as it is coming off of the truck. Councilor Tim Moriarty explained that three tests are done: (1.) Slump; (2.) Air; and (3.) Cylinders. He explained more about these. Town Manager Barbara Gilbert referred to the quality of the concrete at twenty-eight days and she asked if it is cured for twenty-eight days, if this is taken out and then they see how it breaks. Al Seagrave said this is a psi test. Town Manager Barbara Gilbert said they had psi issues when the Town Hall was being built.

Jim Sollmi said the issue is with how this was installed. There is a very thin layer when fines are brought up to the top and salt could definitely affect this. He said Al Seagrave is right when he said this is supposed be broomed off but nobody does it. Materials are put down, it is deiced and then people walk away. This will eat through if there is a very thin layer and it will hold up if there is a layer that is not that thin. The coring will probably show this is okay. Mitch Cropley said the coring might also show the thin layer. Jim Sollmi said it will flake right off.

Town Manager Barbara Gilbert asked who installed everything. Al Seagrave said this was done by a company called ACB Concrete. Councilor Tim Moriarty asked if all of this was and Al Seagrave said yes. Councilor Tim Moriarty asked who bought the concrete and Al Seagrave said he did. Councilor Tim Moriarty said they are going to want two core samples. They will want one from the slab on top where the drain is and they are going to want one from the kneewall. Al Seagrave asked if they have an aesthetic issue or a structural issue. He understands Town Manager Barbara Gilbert's request that she doesn't want to be haunted with this again for the rest of her life. Al Seagrave asked if they have deformation to the product from a structural aspect. If not then this becomes an aesthetic thing. There are a number of ways to solve this problem with good products that exist now from an aesthetic point of view. Councilor Tim Moriarty said this isn't what they paid for though. Al Seagrave said they can rip this out to determine what is wrong with it. Councilor Tim Moriarty said there are good things out there and it all comes down to the application of putting them on in the right way. He also referred to the location of this. Rich Cooke said it is shady there.

Town Manager Barbara Gilbert said the Town paid for one thing and she wants what they paid for. Al Seagrave told Town Manager Barbara Gilbert that he didn't say she wasn't deserving of this but he told her that if he didn't do it then it is a whole other issue. Town Manager Barbara Gilbert said she understands. She has a responsibility to provide the taxpayers with what they said they are providing them with. When people are asking her what is wrong with it, etc. then it is not providing them with what they expected. She has a fiduciary responsibility to give them what they paid for which is a new set of stairs that should look like a new set of stairs. Handicap ramps were paid for by them and they should look like new handicap ramps. This is still the taxpayers' money even though it is being paid for by a State grant. Al Seagrave said this is understood.

Rich Cooke referred to the aesthetics. He has received a lot of negative comments about the discoloration and the staining on the surface. He said it looks horrible. Al Seagrave said maybe there is a higher content of water that is being used in the concrete mix but the specifications called for the application of polyurethane films as a curing method. Terri Hahn said this wasn't done correctly. Town Manager Barbara Gilbert said this is what they need to hear and she asked if this was supposed to have a look. Terri Hahn said it was without a doubt the worst possible weather situation to have any of the concrete poured in. Al Seagrave said it was in July. Rich Cooke asked if there was a method that was spelled out for the concrete guy to follow. Al Seagrave said he had it right there. Jim Sollmi said this should have been set up before it was covered and he didn't really know what the weather conditions were.

Town Manager Barbara Gilbert said Terry Hahn didn't get a chance to finish what she had been saying and she wanted to hear what she was saying. Terry Hahn said her observation from when she was there was that the plastic wasn't doing what it was supposed to do. This caused the staining and she said this isn't a structural issue. Jim Sollmi asked Terry Hahn if the concrete hadn't been set yet and he asked her what she actually saw. Jim Sollmi asked if it was just that it was wet. Terry Hahn said there was folded plastic that wasn't placed smoothly. It wasn't what it was supposed to be at the moment she had been there but she said for all she knew that it could have been cleaned up afterwards. She did mention that at that time she said. It promptly rained another two inches as soon as this had been put down. The circumstances were truly extraordinary. Councilor Tim Moriarty said this looks even worse when it is wet.

Jim Sollmi said this is a structural problem if weakened concrete was put in there. This should be removed. To him, this looks like it wasn't installed properly so it is in a weakened condition. The slightest bit of salt put on this will eat right through. He is not sure what the cores will even show. The problem with this is that they are going to have that very thin layer. This is his opinion.

Al Seagrave said they have this problem right away with the spalling and scaling if there is no aeration in the concrete. Jim Sollmi explained what the 7% air entrainment is put in for. He said if the fines are worked to the surface then there is a very thin layer which is easily destroyed and he has seen this in other locations. He mentioned the slabs there are

at the high school which were done at the same time and they get a lot of the same salt treatment. He went to check those and those are fine.

Al Seagrave asked what type of product they are using. Rich Cooke said they are using a product that is made for concrete and it is concrete safe. Al Seagrave asked if this information can be given to them and Rich Cooke said he can get this information. Al Seagrave said this would be helpful. Rich Cooke said prior to the winter season coming that he and Mitch Cropley had spoken about different methods because he was concerned. Rich Cooke said he had a bad experience in the past and he didn't want to get into a situation where they were going to have spalled concrete. There is always a different answer depending on who is talked to. Some people say that no products are supposed to be used for the first year but he said that is not reality because it is a library, etc. and ice has to be gotten rid of. They had tried kitty litter but that was too much of a mess. All different kinds of things were tried first. The concrete company recommended the use of Salt Guard and he shared this with Jim Sollmi. This was applied according to the manufacturer's instructions, etc. They thought this would be an added measure of protection. Rich Cooke thinks they have done everything properly. He spoke about how some sidewalk sections at the Police Department were done and how the guys had overworked the concrete. There is a thin layer at the top. Al Seagrave said this usually happens on a hot day when the concrete is setting up too fast and they have to go back and apply water. They didn't have that type of situation that day with the library. It was a rainy and overcast day. Jim Sollmi said maybe the concrete was too wet.

Town Manager Barbara Gilbert asked how much more it would have been to have put some type of heating mechanism in to keep it from freezing since it doesn't get much sunlight. Councilor Tim Moriarty said they can't do that. Al Seagrave said it would be outrageous and "big bucks".

Rich Cooke thinks they are still going to see the spalling if they have the thin layer even without the deicing, etc. Al Seagrave said he wasn't blaming the deicing but he was just saying that this was one of the things it could be. They are all speculating until they know what caused this. Jim Sollmi said they just want to do this once.

Town Manager Barbara Gilbert referred to test borings and she asked Councilor Tim Moriarty what he thought. Councilor Tim Moriarty said this will be the next step. Al Seagrave said they will core this and send it out to a lab. Town Manager Barbara Gilbert asked if another layer could be put over so it is not as visible. Al Seagrave said eventually the concrete is coming out.

Angela Cahill said if only the top portion is the problem and it is structurally fine below then the whole thing doesn't have to be ripped out and it can be ground down. The top could be re-poured. She said they would then have an aesthetic issue but just the design of this is difficult because obviously they aren't going to grind down and re-pour each step. This whole piece will have to come out and this is connected to the kneewalls which have the footings below. She said it will be a mess as to where they stop. She thinks the first step is to find out what is wrong with this. Town Manager Barbara Gilbert

confirmed that the kneewalls will need this if they end up going to someone's insurance company. Angela Cahill said exactly. Al Seagrave said he would go to his insurance company first. He explained what would happen. He said all they are trying to do is do the right thing which is to get the test done and have someone make a comment as to what they feel the issue could be. The first thing is to see if there is entrainment in the concrete. This will let Aiudi out a little bit if there is. They can then see if this is an installation technique issue. They will get to the point after this where they have to do something. They will patch the cores after they are cored so this won't be seen except for little circles. Jim Sollmi said it won't be bad. They will just know there was a hole there.

Town Manager Barbara Gilbert said for them to do the test borings. Councilor Tim Moriarty asked who will determine where this will be drilled. Town Manager Barbara Gilbert said Jim Sollmi will. Angela Cahill said they could walk over to the library now. She thought the worst issue of scaling or delamination was on the kneewall towards the base and she showed where this was on a drawing. She said the dusting could happen anywhere but she said the most severe part is near the drain. Town Manager Barbara Gilbert asked Jim Sollmi if he was aware of any clogs in the street or with the underground drainage and he said he wasn't.

Councilor Tim Moriarty referred to the issue of what is around the railings. Al Seagrave said this had to do with the product that was used. He thought another product was submitted and they were waiting to do this. Town Manager Barbara Gilbert asked who did the railings. Al Seagrave said Universal Steel did. Town Manager Barbara Gilbert asked where Universal Steel is out of and Al Seagrave said it is out of Bristol. Councilor Tim Moriarty said some of the stuff blew the slab out. Al Seagrave said they had talked about the feasible reason as to why this happened. The post that goes down into the concrete is a hollow tube. Water got in there and expanded. They had a methodology they were coming up with to infill the bottom of the post so the water can get in there. They were going to drill a small hole to allow the water out so that they didn't have the problem again. They were going to then re-epoxy the base posts.

Councilor Tim Moriarty referred to the issue of the powder coating on the top. Al Seagrave thought most of this issue was dealt with. Rich Cooke said Angela Cahill had given them a punchlist that they all received at the last meeting they attended with regards to the library. The only thing they received commentary on or any direction on thus far with regards to methods of how to repair it, etc. was the letter they had received on the concrete which they were at this meeting now to talk about. They are still waiting to hear on the other punchlist items. Angela Cahill said these are regular punchlist items. She thought the guy came back to do the re-powder coating. Town Manager Barbara Gilbert asked how this could be done and Mitch Cropley explained. Rich Cooke said he was waiting to see something on this. Mitch Cropley said he talked to another vendor they use all of the time who has a powder coating division. This vendor said there was a possibility that oil had been on the aluminum before this was powder coated. Town Manager Barbara Gilbert said it wasn't cleaned and Mitch Cropley said yes. Angela Cahill asked if they are having conversations with the guy who did this. Al Seagrave said they aren't done with him. Angela Cahill said it is nice to know the answer first as to

what is going to happen to the ramp and the concrete steps. Al Seagrave said he was a little hesitant to have this guy drive out to do his thing. He wanted to get it done but then he heard about this afternoon's meeting they wanted to have. He can't say where the problems are without testing and he doesn't want the same problem back.

Town Manager Barbara Gilbert said she wanted to have this meeting so that they all were on same page relative to the testing. She wanted to make sure that Councilor Tim Moriarty, Jim Sollmi and Rich Cooke concurred with what she was thinking. She wanted to make sure they all agreed from a Staff standpoint that testing needed to be done.

Rich Cooke said for them to assume that the test results come back and nothing is wrong with the concrete, etc. He asked how aesthetics come into play. He asked if the concrete can be rejected based on the aesthetics on the staining that is there. He wants to go with the testing. Al Seagrave said there are two other options after that. They don't have to get rid of all of this if the structural aspects of the concrete are good unless that is what they want. The other issue is if they can solve the aesthetic problems by other methods and means. This would be part of making the plastic staining problem go away. He said if they are going to apply something to it to solve the aesthetics short of total annihilation then they do it all.

Town Manager Barbara Gilbert said Terry Hahn probably had a certain view on how she wanted the stairs to look when she proposed the stairs. There were specific instructions on how they were to be finished. Town Manager Barbara Gilbert said there is a problem if these don't meet what Terry Hahn specified. Al Seagrave asked if this met what was specified before the winter months. Town Manager Barbara Gilbert asked if this was photographed. Rich Cooke said they were talking about staining and this existed prior. Al Seagrave told them they had to understand that the methodology wasn't selected by them and they didn't choose to put the plastic on this. They were told by IMTL to do this. Town Manager Barbara Gilbert said IMTL is liable then in her opinion. Jim Sollmi said the Town didn't pay for stained concrete either. Al Seagrave said the specifications allowed for this and they didn't want to do this. There were other methodologies. They could have used burlap, etc. Mitch Cropley said this is written in IMTL's reports and they were instructed by them to put the plastic down. Al Seagrave said he wouldn't have chosen that methodology. They use burlap which is a lot cleaner and a lot better but the day the concrete was poured didn't warrant that kind of application.

Al Seagrave said for them to move forward with the testing. Councilor Tim Moriarty asked what the lead time is on the testing. Al Seagrave said it is three to four weeks for a petrographic test. Councilor Tim Moriarty said this is where they have to go right now and for them to get the cores out to see what they have. Rich Cooke asked them if they want to go to the library after this meeting. Al Seagrave said he would instruct people to get somebody down with the pouring crew. They will pour this and patch it back in.

Terry Hahn said while they are waiting for the testing that they might consider various different alternatives so as not to make the process linger too long. They can get some information as to what the various alternatives are so they can see what they want to

propose. She asked if a partial removal is an option or if this is impossible from a practical perspective. Al Seagrave said they knew how difficult it was to keep the library operational and Rich Cooke said there are nine hundred people coming through there a day. Town Manager Barbara Gilbert said people could be brought in through the back door. Al Seagrave said there isn't an ADA entrance and this was the issue they faced before. He said she (Library Director) shut the library down so as not to discriminate. Town Manager Barbara Gilbert said she had shut her down.

Mitch Cropley thought they could take the slab that has the piece of wood in it and the slab to the right where the dusting is. This splits the doorway in half. They could do like they did it the other time when they fenced it off and used the ramp.

Councilor Tim Moriarty said they have the whole issue with the kneewall on top. This is an installation issue and not bad concrete. He explained this was patched in and it came out. This will happen when concrete is patched. Town Manager Barbara Gilbert said this was what she meant with the high school stairs and there is the same condition. Councilor Tim Moriarty referred to the climate in New England and he said it just doesn't seem to work any time that concrete is patched. Patching doesn't work on flat and heavy traffic areas. Jim Sollmi thinks the whole thing has to come out and they can't really do a surface treatment on any of this. Terry Hahn said this is complex. One side on the bike rack side is tied into the kneewall base, etc. She didn't know if it is possible from a practical perspective to key up some of the footing components so this doesn't have to be dug out all the way to the bottom. Mitch Cropley said no footings were shown on the drawing and that they had put footings in. They put them in because at the time they were in so much water and they had to get something underneath the wall to start building the walls on.

Al Seagrave said if they go for a full replacement that he is going to throw this to the insurance companies. There is a process that goes through this and they are talking \$60,000.

Jim Sollmi told Al Seagrave that he agreed with what he was saying about finding out what is wrong with this before they start throwing money away. He thinks this is the good way to go and it sounds like a logical process. There is a thought process. Al Seagrave said they need to make sure that they all understand each other. Jim Sollmi thinks they are on the same page with regards to finding out what is wrong. Angela Cahill referred to what Terri Hahn was saying about doing some hypotheticals in the meantime. Terri Hahn told them that they know what it looks like underneath so she asked what they can practicably and reasonably do. She asked if this can be solved from an engineering perspective. Al Seagrave said looking at it quickly that this would be pouring walls in front of walls. They could expand it and just pour over it. He explained a little more. Terri Hahn asked Al Seagrave if the horizontal surfaces would be pulled out. Al Seagrave said the horizontal surfaces would be removed but they would move the walls out or they could apply something to the vertical surfaces. They could basically re-pour all of the tops and then put something on the façade that they find acceptable. Town Manager Barbara Gilbert said they could keep the salt off of this because stone veneer

doesn't handle salt. Terri Hahn explained a little and she said that there is nothing sacred about the relations between the front of the wall and the sidewalk. A little more of a discussion took place with regards to this. Al Seagrave said if they don't make sure that what the base is all about is good then they will be in trouble. Terri Hahn asked if the cores of the two locations that they are talking about will be adequate or if they should be doing one into the vertical wall. Al Seagrave told Terri Hahn to just say so if she wants one out of the vertical wall and out of the top. Terri Hahn thinks the kneewalls are an issue but she is more interested in if whether or not the ramp walls are solid enough that they potentially could stay. Councilor Tim Moriarty said in looking at this that they have the construction joint and everything to the left of that is a separate pour. Terri Hahn said it is the area that seems to be to the right of that joint towards the kneewall. Al Seagrave said that was poured at a different time from the ramp. Mitch Cropley believes that was poured with the kneewall. Councilor Tim Moriarty asked if there was a rebar coming out of the walls and going into the ramps. A couple of people mentioned that they thought this was mesh. Councilor Tim Moriarty said the ramp isn't connected to the wall and it is free floating. Mitch Cropley agreed.

Town Manager Barbara Gilbert asked Councilor Tim Moriarty, Jim Sollmi and Rich Cooke if they had anything else to discuss. They didn't have anything else.

The meeting adjourned at 1:53 p.m.