

VILLAGE OF FONTANA ON GENEVA LAKE
WALWORTH COUNTY, WISCONSIN

OFFICIAL Minutes

Monthly Meeting of the Public Works Committee
Saturday, February 23, 2008

Trustee Petersen called the meeting to order at 08:00.

Members Present: Pete Petersen, Marv Sollars, Bob Stewart, Jan Whittler

Members Absent: Mark Kennedy, Ken Pariser, Bruce Adreani

Also Present: Craig Workman

Indian Hills Stormwater Plan

Workman updated the committee on the status of the Indian Hills Stormwater Management Plan, which was written by Liesch Environmental. The cost of the plan was partially covered by an Urban Non Point Source Grant from the Wisconsin Department of Natural Resources. The introduction of the report contains a detailed description of the problem, which includes steep slopes, mowed turf, and “semi-hard” surfaces throughout the Indian Hills Subdivision. These factors lead to low filtration/infiltration potential for stormwater runoff. In addition, the absence of a drainage system forces stormwater to flow overland, causing localized flooding problems. Unmanaged stormwater runoff then transports eroded soil and nutrients from the upland area, causing sedimentation and nutrient/chemical deposition in the lake. The report also details the natural environment (climatology, geology, hydrogeology, natural resources, etc.) and the man made environment (development/land use, streets, water/sewer, etc.) in the study area. There is a brief discussion of the existing stormwater management system, which is all but non-existent, consisting of a few driveway culverts and even fewer short stretches of storm sewer. The report then goes into a section on stormwater management goals and policies along with a section on critical needs such as additional regulatory controls. The final section talks about an implementation program, which details the following capital improvements:

1. Construction of bio-retention and infiltration facilities adjacent to the navigable stream at South Lakeshore Drive and Indian Hills Road (Lot 4).
2. Construction of bi-retention and infiltration facilities on two upland parcels that currently flood and hold stagnant water (Lots 1 & 2, and Lot 3).
3. Construction of a network of roadside and private property line swales (approx 135 lf/acre).
4. Construct or subsidize bio-retention structures, or rain gardens, on private properties that have low lying areas that currently experience temporary flooding and hold polls of stagnant water.

Upon review of the report, the committee felt that the conclusions of the report were somewhat “boiler plate”. Although the committee agreed that there needed to be some amount of roadside swales installed, they did not feel that there was nearly enough room for the 5+ miles of swale proposed by the report (135 lf/acre x 230 acres = 5.8 miles). It appeared the report simply drew swales on the side of each road without consideration of the site specific factors. The committee felt that the report should include additional stormwater management solutions that could include sections of storm sewer/drain tile as well as the potential for some infiltrative trenches. Workman was directed to discuss these concepts with Liesch and update the committee at the next meeting.

STS Proposal - Duck Pond (Drilling Discussion)

Workman updated the committee on the discussions he had with Leo Linnemanstons from STS regarding the proposed drilling method for the next phase of environmental investigation at Duck Pond. At the last meeting, the committee questioned the use of sonic drilling and recommended that Workman contact STS to discuss their recommended drilling technique. In addition to discussions with Workman, Linnemanstons submitted a memo discussing the drilling technologies he reviewed, and why he recommended sonic rotary drilling option. The soil composition at Duck Pond contains large cobbles and boulders mixed with sand. Linnemanstons was concerned that any type of hollow stem auger approach would not be successful in drilling through the presence of the cobbles and boulders. In addition, any type of mud rotary drilling would have the potential to contaminate the aquifer due to the presence of the permeable sand layers. In addition to the difficulty that standard drilling methods would have in dealing with the soil conditions, these methods also require the use of large drill rigs and support vehicles, whereas the rotary sonic equipment is mounted on an ATV. Needless to say, the larger rigs would make it difficult, if not impossible, to access the proposed drilling locations. After additional discussion, the committee agreed that the rotary sonic drilling approach was the best technology to use for the investigation. Petersen/Whitler 2nd made a MOTION to recommend that the Village Board approve the proposal from STS utilizing the rotary sonic drilling method. MOTION carried without a negative vote.

2008 Utility Budget

Although the PSC has yet to approve the new billing rates for Fontana, Workman went through the capital outlay portion of his proposed budget for 2008. The changes from the last review were as follows:

Main Lift Station Demolition - Workman reduced the budget category from the original \$100,000 upon receipt of a not to exceed proposal from Mann Brothers for \$40,000. Although there will be some engineering costs for the project, Workman is optimistic that they will be offset by equipment sales.

HWY 67 Water Vault Abandonment – This is a new addition to the budget that involves the abandonment of the concrete vault at the intersection of Wild

Duck Road and HWY 67, which houses components for the booster station that used to provide water to the old sewer treatment plant. The equipment was abandoned when the Duck Pond Standpipe was installed in the mid '80s and the watermain that passes through the vault was decommissioned last fall during the Wild Duck Road project. The committee endorsed the project for the 2008 Utility Budget.

Harvard Avenue – At the last meeting committee endorsed the completion of the Harvard Avenue project in its entirety. This was in conflict with the recommendation of the Finance Committee, who recommended the completion of “Upper” Harvard Avenue. Workman presented a letter, which was received the day prior (2/22/2008) by the Glenwood Springs Association indicating the Association was only able to complete “Upper” Harvard Avenue in 2008. The letter suggested the Village could complete the entire stretch of watermain but would be responsible for restoring “Lower” Harvard Avenue to its original condition. Petersen stated that the Village had other priorities than paying to replace private roads and that the Village should only proceed with the project if Glenwood Springs could budget for both sections of the roadway.

Road Excavation Fees

At the last meeting, a copy of the “Street Excavation” section of the Mukwonago Municipal code was distributed for discussion. Workman suggested that the Village should have something similar in our code to streamline the process for permitting road openings. Currently, the Village Code has a set fee of \$1,000 for a road opening, which is to be used by the Village for backfilling and resurfacing. Typically, permit holders arrange for the backfilling and resurfacing work to be completed by an outside contractor and the money is returned. Workman suggested this fee be increased, and the language changed to put the burden on the permit holder to make the repairs. The Mukwonago also includes language allowing permit fee to be increased if the nature and extent of the excavation warrants. Workman also liked the fact that the Mukwonago ordinance required the asphalt to be saw-cut prior to excavation. Stewart disagreed with Workman, stating that the saw-cut would cause the excavation to cave in, leading to a larger patch. After some discussion, the committee directed Workman to discuss the language with the Building Inspection Dept. and return with a final draft for review.

Bucket Truck Maintenance

Workman discussed the recent inspection that had been done by Dueco on the aerial lift truck. The inspection revealed the fact that the majority of the hydraulic hoses inside the booms and turret were original to the 1989 truck and beginning to dry rot. For this reason, Dueco recommended complete replacement of these lines at an estimated cost of \$2536.13. In addition, Dueco recommended replacement of worn hydraulic pump pressure and suction lines and worn electrical wiring for the hydraulic clutch pump at an

estimated cost of \$520.45, and replacement of the start/stop and emergency stop pump at an estimated cost of \$607.22. After discussing the truck and its use, and the fact that it had plenty of useful life expectancy left, it was agreed that the work should be completed. Workman asked if he should obtain a quote from Dennis Walsh to do the repairs. It was agreed that the work should be completed by a company that could certify the vehicle. Petersen/Stewart 2nd made a MOTION to have Dueco proceed with the repairs outlined in their 1/31/2008 proposal. MOTION carried without a negative vote.

Truck 14 Repairs

Workman reviewed with the committee the long list of problems the Public Works Department has had with the plow and hydraulic system on Truck 14. The cab and chassis is a 2003 Ford F-550. The plow, hydraulics, V-Box, and dump box were fabricated and installed by Monroe Equipment Company. There have been issues with Monroe's work since the day the truck was delivered in July 2003 with the fact that the plow frame was too close to the ground and the truck had to be returned to Monroe upon initial delivery for modifications. Next we realized that there were no angle stops installed on the plow, which caused the hydraulic rams to overextend. We believe this is the root of the rest of the problems. The hydraulic rams on the plow were just replaced last month. Upon replacement, it was discovered that one of the rams was filled with metal filings, which was an obvious sign of failure. Although the hydraulic system was drained and cleaned, it is impossible to remove all of the metal filings in the system. It was also indicated during a recent trip to Monroe that the hydraulic system should have been built with a hydraulic cooler, which was never installed. This is believed to be the root cause of some of the other hydraulic failures such as o-ring expansion. Although Workman had the item on the agenda for discussion purposes only, Stewart recommended that the plow be replaced. Workman stated that he and Ron Adams would be creating a detailed history on the truck to present to Monroe to see if they will do anything to help us out.

Arrowhead/Castle Terrace Project Update

Nothing new to report

Wild Duck Project Update

Nothing new to report

Porter Ct. Plaza Project Update

Workman stated that he is optimistic that Mann Brothers will begin the work on Porter Ct. in the next week or two.

Third Avenue Project Update

Nothing new to report

Set Next Meeting Date

The next regularly scheduled meeting was scheduled for Saturday March 29, 2008 at 8 am.

Adjournment

Petersen/Whitler 2nd made a MOTION to adjourn at 09:30. MOTION carried without a negative vote.

Minutes Prepared by Craig Workman, P.E., DPW