



BUILDING COMMITTEE WORKING SESSION MINUTES (SEPTIC SYSTEM/BUILDING CONSTRUCTION COORDINATION) JULY 7, 2017



1. The meeting was called to order by Building Committee Chairman Hennessey at the FLFD fire station at 10:10 am.
2. In addition to Chairman John Hennessey, Building Committee member Tom Cummiskey, Jeff Schaffer, Caliente Construction and Jeff Smith, Covenant Group were in attendance. There were no members of the public. Jeff Schaffer and Jeff Smith attended telephonically.
3. Discussion Re: Coordination of Construction Activities for the New Building Project and the New Septic System.

Overall comments:

- Plan is for septic system construction to begin and end in August.
- John Hennessey sent a link to the complete drawing package for the building permit application to Jeff Smith. Jeff to review the relevant sheets of the package and advise if there are any concerns.
- The septic permit has yet to be approved. There apparently were some issues with the county related to holiday absences that delayed the second review of our application.
- Jeff Smith will proceed with the final details and planning for the construction once he has permitted drawings. This will include drafting a contract for FLFD for the construction of the new system.
- John Hennessey has been in contact with Chris Young, Chief Building Department official (928.679.8860), to see if he can release the building permit ahead of final cleanup of the details for the septic system design. We are awaiting feedback on this request. Current indications are that the DEQ wastewater permit will not hold up the building permit. Our Master Schedule calls for the building permit to be issued by mid-August. We would like for it to be sooner.
- The finish floor elevation is 7529.5 feet. Jeff Schaffer stated the stub out for the sewer connection is 5.5 feet below finished floor level. It will extend 10 feet beyond the building footprint.
- Jeff Smith will conduct a site visit either Wednesday or Thursday of next week. He will advise us of the date.
- DEQ county inspector only schedules inspections on Thursdays at Forest Lakes.
- The new and old station septic systems will be connected once the new station is completed. The septic system for the old station must remain operational until such time as the changeover connection is accomplished. Grading and drainage operations must be accomplished with this requirement in mind.
- Jeff Smith noted some concerns re: the donated DWV pipe. John stated the pipe is new. The pipe needs to be properly stored so it does not bow. Bowed pipe complicates the installation because it has direct impact on the ability to preserve the ¼ inch per foot drop requirement for DWV piping.

1. Construction of the leach field, including the distribution box.
 - Work can begin immediately on the leach field without hampering any building construction activities. The leach field is just to the west of the blue garage. Per Jeff Smith, there will be six trenches, 3 feet wide and about 20 inches deep by 69 feet long. They will be parallel to the grade. There will be a distribution box installed at the highest point of the leach field.
2. Capping the leach field
 - Should be done ASAP.
 - Will need to be coordinated with the inspection requirement by the county.



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- Jeff Schaffer will provide the cap soil to be harvested from the site at a location to be agreed upon by Jeff Smith.
 - Ideally, Jeff Smith would like the cap soil to be located both above and below the leach field.
 - Note: total required cap soil is about 60 cu yds.
3. Trenching and installation of the pressure piping from the septic tank to the leach field
 - Can be accomplished at any time that is convenient with Jeff Schaffer.
 4. Installation of the septic tank and related equipment
 - Jeff Schaffer stated the depth of the main sewer connection to the station is 5.5 feet below finish floor level. Jeff Smith said this means the new septic tank must move further away from the fire station in order to satisfy: a) the ¼ inch per foot drop of the DWV; b) the connection to the tank (7 inches below the top of the tank); c) and the maximum burial depth of the tank (less than or equal to two feet below grade.) Jeff Smith will confirm location during his site visit. Question: can this be documented as part of the as-built process or does it need to be coordinated with the county before installation?
 - The aerobic tank will be exposed by about 2 feet. It will be the only portion of the treatment system exposed.
 - Moving the new septic tank south by about 60 feet (Jeff Smith's initial estimate to satisfy a), b) and c) above) means we will need about 100 feet more 4-inch DWV pipe. John Hennessey took an action to investigate if we can secure an additional donation.
 5. Trenching and installation of the 4inch DWV pipe to connect the old and new systems.
 - Trenching can be accomplished as convenient.
 - DWV has to be set 12 inches below grade.
 - The 4-inch DWV will be in place but not hooked up the old station tank until the system changeover is accomplished (date is TBD). It will be an FLFD task to accomplish the connection the of the old septic tank to the new DWV pipe.
 - This pipe will only handle effluent—no solid waste.
 6. Demolition/decommissioning of the existing septic tanks per the approved plans.
 - Jeff Smith will accomplish the destruction of the unused tanks.
 - FLFD to assure no liquid remains in the tanks.
 - Jeff will crush the top, punch a hole near the bottom of the tank so it can't hold water and fill with soil.
 - Jeff Smith suggested we can simply pump the tanks dry by using a small dirty water pump to pump any liquid into the discharge of the tank so it drains into the leach field for each tank. The alternative is to have it pumped out by a professional service.
 7. Connection of the existing building septic tank discharge to the new system.
 - Arrange for the existing tank liquid level to be pumped down by several hundred gallons (this will allow the old station sewer system to remain operational during the changeover.)
 - Remove a section of the discharge pipe to the old leach field.
 - Make a plug to connect the two systems.
 - Connect with either sleeveless couplings or flexible rubber couplings.
 8. Trenching and electrical connection to the main power panel.
 - Jeff Smith will provide buried conduit from the new septic tank power panel to the new fire station, location TBD.)
 - Jeff Schaffer will coordinate with the electrical contractor so there is an available 20 amp circuit breaker in the panel. Jeff will issue an RFI to assure a new circuit number is assigned.



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- Jeff Smith to provide a description of the equipment to be powered (pumps, compressor, controller, ...)
- 9. Target date for the approval to discharge.
 - To be coordinated between Jeff Smith and Jeff Schaffer.
- 4. Review Action Items.
 1. Jeff Smith
 - Conduct a site visit either Wednesday or Thursday of next week.
 - Review drawing package and provide feedback.
 - Provide a list of equipment to be powered by the new electrical circuit.
 - Be prepared to stake out the existing leach field for the current fire station so it is not damaged during grading, drainage and trenching operations.
 - Provide new location of the septic tank.
 - Provide a recommendation re: question - can the move of the new septic system south be documented as part of the as-built process or does it need to be coordinated/approved with the county before installation?
 2. Jeff Schaffer
 - Coordinate with Jeff Smith on cap soil location.
 - Coordinate with electrical contractor for new circuit to power the new septic system.
 3. John Hennessey
 - Send drawing package link to Jeff Smith.
 - Investigate possibility of an additional 100 feet donation of DWV.
 - Arrange for proper storage of DWV currently on site.
 - Plan ahead for connection of the old septic system to the new DWV pipe connection.
 - Arrange for pump out of the septic tanks to be destroyed.
- 5. The meeting was adjourned at 11:12 am.