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ERNIE FLETCHER  
GOVERNOR

**CABINET FOR HEALTH AND FAMILY SERVICES**  
DEPARTMENT FOR PUBLIC HEALTH  
DIVISION OF PUBLIC HEALTH PROTECTION & SAFETY  
ENVIRONMENTAL MANAGEMENT BRANCH  
275 EAST MAIN STREET, HS 1C-D  
FRANKFORT, KENTUCKY 40621-0001  
(502) 564-4856 (502) 564-6533 FAX

JAMES W. HOLSINGER, JR., M.D.  
SECRETARY

June 14, 2004

Hardin County Health Department  
Attn: Don Pack, Environmental Supervisor  
580 Westport Road  
Elizabethtown, KY 42701

Dear Mr. Pack:

This letter is in regards to the septic system plans submitted by Hawkins Engineering, Inc for the Sonora-Upton Elementary School located in Hardin County. The plans as submitted are approved with the following stipulations:

1. A grease trap with a minimum capacity of 500 gallons must be installed as per Kentucky On-site Sewage Disposal Systems Regulations (KOSDSR), 902 KAR 10:085, section 6(3)(d). It is recommended that an approved effluent filter designed for grease traps be installed. Please show on the plans how the grease trap will be plumbed into the septic system. It should connect back into the septic system sewer line in front of the septic tank; that is, it should hook into the sewer line entering the inlet end of the septic tank.
2. The bottom of the outlet baffle in the first compartment of the septic tank is shown on the plans to be 5.55 feet off the bottom of the septic tank. This should be set off the bottom of the septic tank the same distance as the outlet baffle in the second compartment, which is shown to be 3.9 feet.
3. The inlet pipe entering the second compartment of the septic tank must be baffled the same as the inlet pipe entering the first compartment of the septic tank. That is, it must penetrate eight (8) to ten (10) inches into the liquid layer and extend upward to within two (2) inches but no closer than (1) inch to the inside top of the septic tank.
4. It is recommended that a vent hole be cast into the top of the divider wall for gas movement. This opening should be at least one (1) inch tall by four (4) inches wide.
5. The site evaluation indicates that mottles were found at a depth of 28 inches and a fragipan at 36 inches. The lateral lines may be installed at a maximum depth of ten (10) inches without a curtain drain being required. The lateral lines may be installed at a depth of eighteen inches with a curtain drain. If a curtain drain is utilized, it is recommended to be installed to a depth of 42 inches and brought to daylight downslope of the lateral field.

From West Hurclin

6. Please submit the timing cycle requirements per Bord Na Mona's design requirements based upon the calculated total daily wasteflow.

Before a permit to install may be issued by the local Health Department, the following items must be completed and submitted:

1. An up to date plan submission showing the above listed items have been properly addressed.
2. An Experimental Systems Affidavit form must be properly completed, notarized and submitted.
3. A Declaration of Covenants, Conditions, and Restrictions and proof of its attachment to the property deed must be properly completed, notarized, and submitted.
4. A training session must be held by Bord Na Mona for the purpose of certifying the Kentucky Certified Installer, all certified inspectors that will be involved in the installation inspection of this system, and the certified operator who will maintain the system.
5. All requirements in the Hardin County Operation and Maintenance Ordinance must be met.

If there are any questions regarding any of this information, please contact me at (859) 737-3415.

Sincerely,



Craig A. Sheehan, R.S.  
Technical Consultant  
Environmental Management Branch  
Department for Public Health



## Straeffer Pump & Supply, Inc.

6100 Oak Grove Road P.O. Box 5248 Evansville, IN 47715  
Tel. (800) 837-7867, (812) 476-3075, Fax (812) 476-5164

Engineered Sales



"If you can pour it  
We can pump it"

1.3

DATE: 02/17/05 12:51 PM

TO: Phillips Brothers Construction - Attn: Cliff Smith

FROM: Tom Mooney (tmooney@straefferpump.com)

SUBJECT: Sonora / Upton Elementary School

NUMBER OF COPIES: 1 (Including Cover Sheet)

MESSAGE: Mr. Smith,

We have refigured our panel price, based on the panel we previously supplied for the West Hardin Elem School. This panel was quite a bit more expensive than what was specified for the subject project. The total adder to your order is: \$1185.00

This includes a control panel, per the W. Hardin Elem. School panel, with 2 aluminum mounting pedestals and cord grips. We are not including the junction box.

The changes include:

- The addition of a battery back-up system

- The addition of a triplex alternator and associated circuitry

- The addition of an elapsed time meter for each pump

- Larger control transformer

- Larger stainless steel enclosure, to house the additional components.

Please approve the above adder so we can continue with the electrical submittals. We have placed these "On Hold".

Best regards,

Tm

1185  
+ 6% Tax (71.10)  
\$ 1256.10



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Engineered Sales

"If you can pour it  
We can pump it"

DATE: **FAXED** 02/24/05 3:18 PM

Re-fax  
3-2-05

BID/Quote

TO: Phillips Brothers Construction, LLC - Attn: Cliff Smith

FROM: Tom Mooney (tmooney@straefferpump.com)

SUBJECT: Sonora / Upton Elem. School - Phillips Brothers P.O. #1670127CS

NUMBER OF COPIES: 1 (Including Cover Sheet)

MESSAGE: Hello Cliff,

The adder for the pump model and horsepower change is: \$1784.00

We show the new order total to be: \$17,877.00

This includes changing all three (3) pumps from 3 HP to 5 HP. It also includes the necessary changes to the control panel.

We should have the submittals to you by the beginning of next week. Please do not hesitate to give us a call with any questions or concerns.

Best regards,

Tu

1784  
+ TAX 107  
\$1891

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[www.straefferpump.com](http://www.straefferpump.com)