



FILE
SCI ENGINEERING, INC.

130 POINT WEST BOULEVARD
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www.sciengineering.com

RECEIVED
FEB 13 2006
ENGINEERING DEPARTMENT

February 7, 2006

Mr. Ken Davis
T.R. Hughes, Inc.
239 Fox Hill Road
St. Charles, Missouri 63301

**CONSULTANTS IN DEVELOPMENT,
DESIGN, AND CONSTRUCTION**
GEOTECHNICAL
ENVIRONMENTAL
CULTURAL RESOURCES
NATURAL RESOURCES
CONSTRUCTION SERVICES

Re: Brookside
Spring Remediation Completion
O'Fallon, Missouri
SCI No. 2003-0093.00

Dear Mr. Davis:

As requested, SCI Engineering, Inc. (SCI) provided engineering and construction observations during remediation of the spring within the Brookside subdivision in O'Fallon, Missouri. In our attached letter dated October 13, 2005, we provided a remediation plan for this sinkhole.

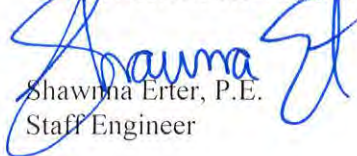
SCI observed each of the steps discussed in the attached letter as well as provided compaction testing of the soil fill. However, our previous letter referenced an apparent bedrock layer approximately 4 feet below the observed spring discharge. When the spring was pumped and excavated, the layer was a gravel/boulder layer and the excavation was continued to solid bedrock. The spring was then discharging along the top of the bedrock. Photographs showing the progression of the remediation are also attached. As anticipated, the spring has been captured in the manhole and is discharging by gravity into the storm sewer outfall pipe at Elevation 477.2.

The fill required to bring the area to grade will be placed during general grading operations. These activities will be observed and monitored by SCI and our results will be provided on the final general grading report for the property.

We appreciate the opportunity to be of service to you on this project. If you have any questions or comments, please call.

Respectfully submitted,

SCI ENGINEERING, INC.


Shawna Erter, P.E.
Staff Engineer


William J. Green, P.E.
Chairman

Enclosures Letter dated October 13, 2005
Photographs (1 through 9)

C: Mr. Charlie Mobley; City of O'Fallon



SCI ENGINEERING, INC.

130 POINT WEST BOULEVARD
ST. CHARLES, MISSOURI 63301
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October 13, 2005

Mr. Ken Davis
T.R. Hughes, Inc.
239 Fox Hill Road
St. Charles, Missouri 63301

CONSULTANTS IN DEVELOPMENT,
DESIGN, AND CONSTRUCTION
GEOTECHNICAL
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Re: Spring Remediation
Brookside
O'Fallon, Missouri
SCI No. 2003-0093.00

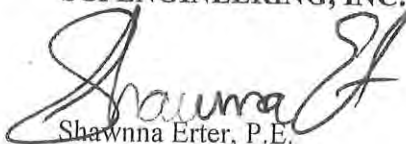
Dear Mr. Davis:

As requested, SCI Engineering, Inc. (SCI) is providing a remediation plan for the spring located within the Brookside subdivision in O'Fallon, Missouri. SCI observed the area of the spring excavated with a trackhoe in September 2005. We observed ledge rock underlain by a gravel layer. The spring was discharging through the gravel layer at a constant rate. Another layer of apparent bedrock was encountered with a probe rod, approximately 4 feet below the spring discharge point. Based on our observations during the field exploration, our recommendations have been incorporated into the Spring Interceptor Detail, Figure 1. The remediation plan includes installation of a standard manhole at the spring location. A minimum 2-foot-diameter hole will be cut in the side of the manhole near elevation 466, where the spring was discharging and the manhole will bear on the underlying bedrock. Cement grout will be used to seal the area around the discharge point, causing the spring to flow directly into the manhole. The manhole will fill with water from the spring to elevation 477.2 where it will flow into the storm sewer pipe which is connected at this elevation.

We appreciate the opportunity to be of service to you on this project. If you have any questions or comments, please call.

Respectfully,

SCI ENGINEERING, INC.

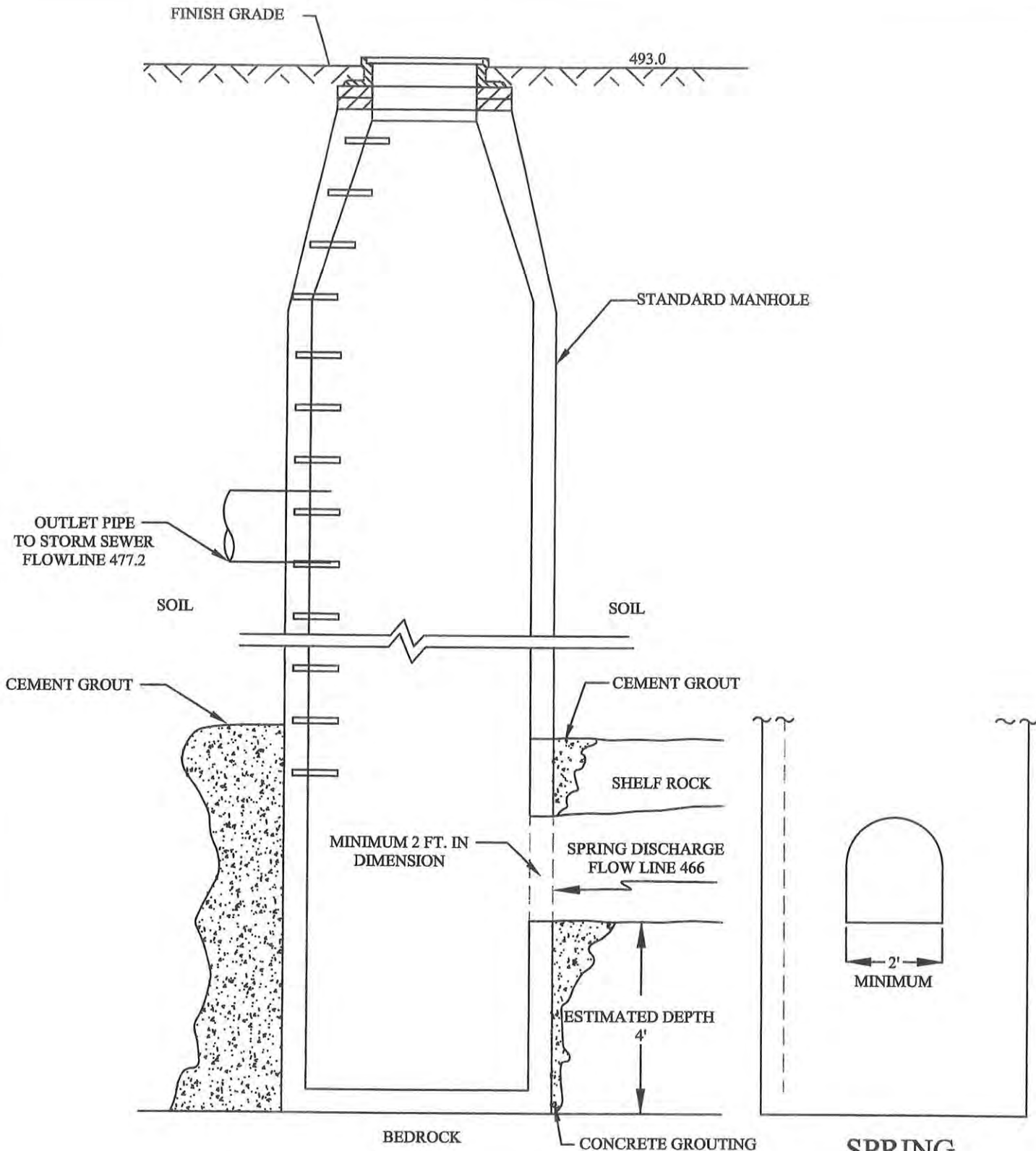

Shawanna Erter, P.E.
Staff Engineer



10-13-05

SLE/AGM/eak

Enclosure Figure 1, Spring Interceptor Detail



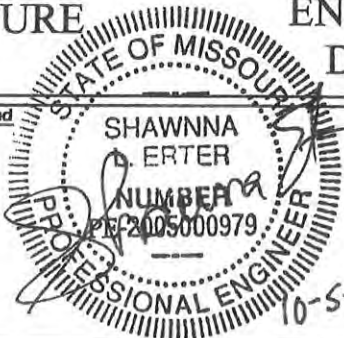
SPRING INTERCEPTOR STRUCTURE

SPRING ENTRANCE DETAIL



PROJECT NAME BROOKSIDE O'FALLON, MISSOURI			
SPRING INTERCEPTOR DETAIL			
DRAWN BY	DKM	DATE	JOB NUMBER
CHECKED BY	SLE	10/2005	2003-0093.00

General Notes/Legend



SCALE NOT TO SCALE
 FIGURE 1

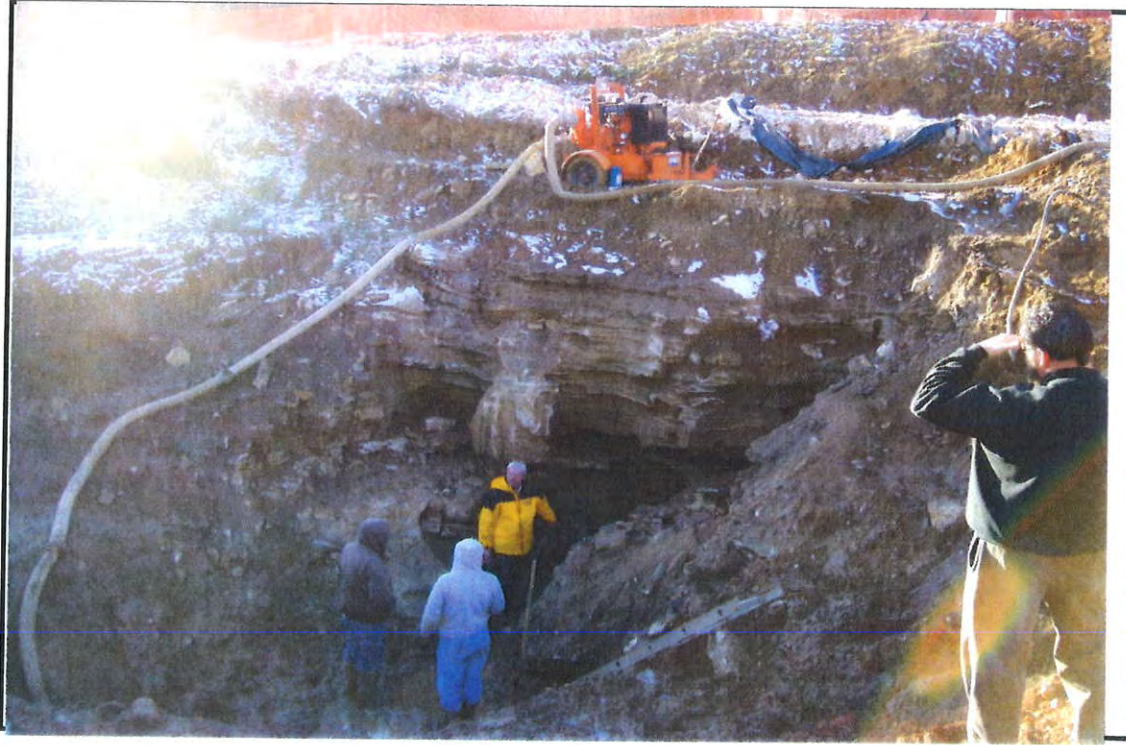


Photo 1. Final excavation.



Photo 2. Final excavation.

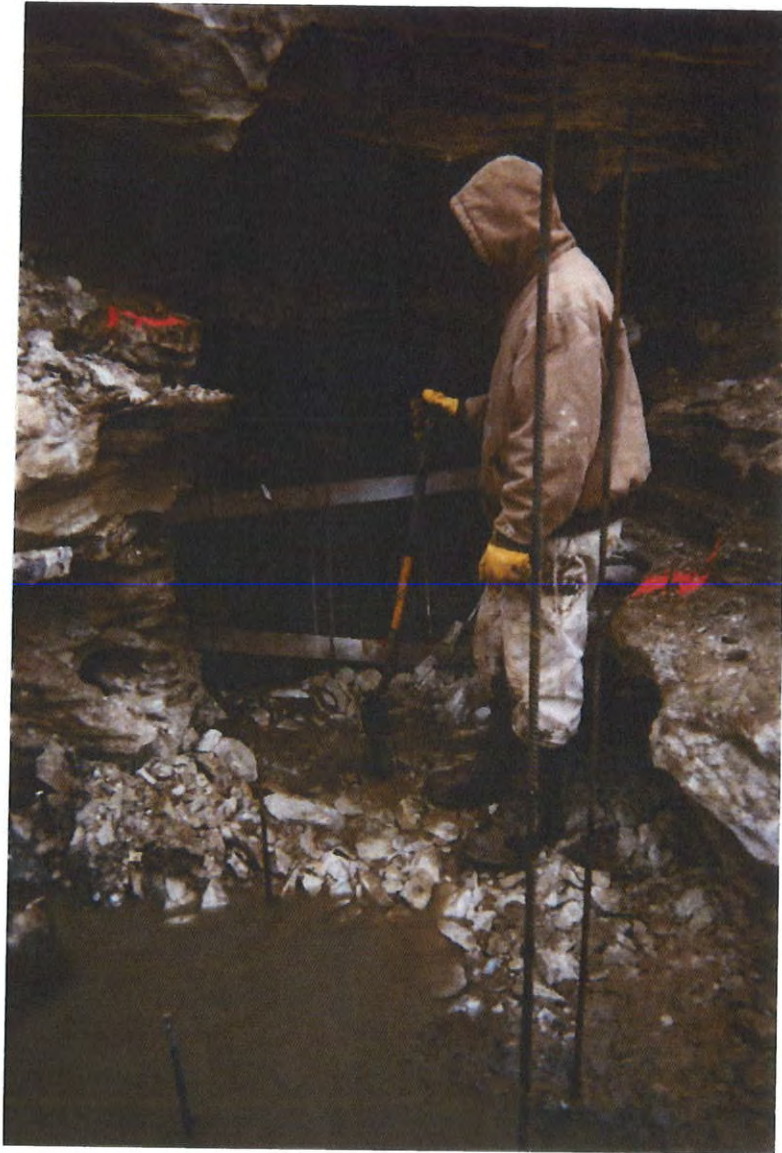


Photo 3: Steel Reinforcement.

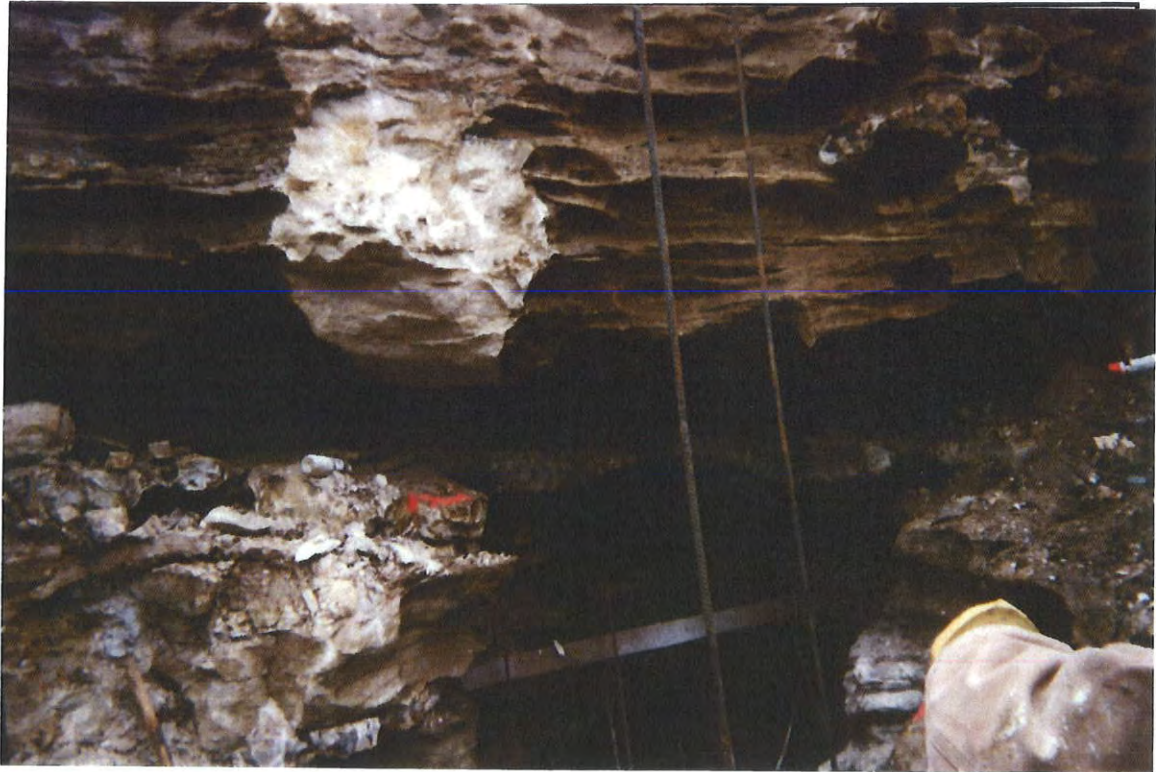


Photo 4. Steel Reinforcement.



Photo 4. Steel Reinforcement.



Photo 5: Concrete Placement.



Photo 6. Construction of Perforated Drain.



Photo 7. Installation of Perforated Drain.



Photo 6. Construction of Perforated Drain.



Photo 7. Installation of Perforated Drain.



Photo 8. Clear rock backfill ground perforated drain.



Photo 9. Spring drain into manhole.



Photo 10. Overall view of Spring Interceptor.



Photo 11. Spring Interceptor.



Photo 12. Concrete cap to bedrock shelf.