



**CHRISTOPHER B. BURKE** ENGINEERING, LTD.  
9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX(847) 823-0520

January 14, 2013

Village of Orland Park  
14700 Ravinia Avenue  
Orland Park, IL 60462

Attention: Kurt Corrigan, PE

Subject: Traffic Noise Analysis  
143<sup>rd</sup> Street from Will-Cook Road to Wolf Road

Dear Kurt:

As you requested, CBBEL obtained the attached proposal in the amount of \$9,437.50 from Huff & Huff to provide traffic noise analysis for the above referenced project.

Please review. If this proposal meets with your approval please sign and return one copy of this letter as an indication of acceptance and notice to proceed. CBBEL will advise Huff & Huff to proceed with the work and invoice CBBEL directly with CBBEL subsequently invoicing the Village of Orland Park. This work will not reflect on any current CBBEL projects with the Village.

Sincerely,

A handwritten signature in blue ink, appearing to read 'MK', is written over a horizontal line.

Michael E. Kerr  
Executive Vice President

Huff & Huff proposal accepted by the Village of Orland Park:

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environmental engineers  
and consultants

915 Harger Road, Suite 330  
Oak Brook, IL 60523  
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January 3, 2013

Mr. Dave Vandervelde  
Christopher B. Burke Engineering, Ltd.  
1938 E. Lincoln Highway  
Suite 212  
New Lenox, Illinois 60451

Re: 143<sup>rd</sup> Street from Will-Cook Road to Wolf Road  
**Proposal No. T13-01N**

Dear Mr. Vandervelde:

Huff & Huff, Inc. (H&H) is pleased to submit this proposal to reanalyze the traffic noise analysis for the above referenced project. This proposal presents our project approach, the scope of services, and cost for completing the project.

## **1. INTRODUCTION**

Christopher B. Burke Engineering, Ltd. (CBBEL) has requested a scope of services to analyze the traffic noise for 143<sup>rd</sup> Street from Will-Cook Road to Wolf Road. This includes updating the previously developed traffic noise model completed (2009) to reflect any changes in geometry to 143<sup>rd</sup> Street and to ensure that the model conforms to the current IDOT Traffic Noise Policy. A new traffic noise report will be developed based on the results of the update.

## **2. SCOPE OF SERVICES**

### **1. Field Review/Noise Monitoring**

A field review will be conducted to verify existing land use and noise sensitive receptors within the project limits. During the field review, noise monitoring will be conducted to evaluate the existing noise environment. Noise monitoring will be conducted between 10 and 15 minutes at between three and five receptor locations along the project corridor. This information will be used to validate the existing scenario traffic noise model.



## 2. Noise Model Update

H&H will review the noise model completed as part of the original Noise Analysis (2009) and modify it as necessary to evaluate traffic noise for the 143<sup>rd</sup> Street project. The model will be updated to reflect the new existing year (2013) and the future year (2040 build and no build) traffic volumes. Traffic volumes will be provided by CBBEL in the form of ADT or peak hour. If 2013 or 2040 volumes are not available, these volumes will be interpolated/extrapolated from the years provided. If ADTs are provided, an appropriate K-factor will be provided to assist in determining peak hour volumes. Truck traffic percentages will be provided for the peak hour for the existing and future conditions, with a breakdown of medium (single-unit) and heavy (multi-unit) trucks. If no new information is available, the K-factor and truck percentages used in the 2009 study will be applied to the new traffic volumes.

If any geometric changes have been made to the proposed 143<sup>rd</sup> Street since the original analysis, data needs for the model will include Microstation files of topographical information and geometry (including profile and cross-sections). This information will be provided to H&H from CBBEL. The traffic noise impact evaluation will be based on the preferred build alternative. If the traffic noise evaluation warrants a noise abatement evaluation, the noise mitigation will be developed to address the vehicular traffic. It is anticipated that the abatement analysis will need to be reevaluated at several receptors in order to conform to the new IDOT policy.

Additionally, land use in the project area will need to be reviewed for additional receptors, permitted developments, and current zoning plans. Permitting information and zoning information will be provided by CBBEL. A noise contour map will be generated for undeveloped lands that are zoned or planned for future development in a zoning map or comprehensive plan. The noise contour map will be sent to local officials for use in future compatible land use planning.

## 3. Noise Report

The traffic noise analysis, noise abatement evaluation (if warranted) and noise monitoring results will be presented in a technical memorandum for the environmental documentation.

Where noise abatement measures are determined to be feasible and reasonable based on traffic noise reductions and cost-effectiveness will need to be reviewed with benefited receptors. *Letters will be delivered to benefited receptors by CBBEL.* Based on the responses received, the local desire for the noise abatement measure will be assessed according to IDOT policy.

**3. ESTIMATED COST**

The cost estimate for this Work Plan is presented in the attached Cost Estimate of Consultant Services (CECS). The manhour estimate is summarized below:

<b>Task</b>	<b>Estimated Manhours</b>
Field Review/Noise Monitoring	6
Noise Modeling Update	40
Noise Report	51
<b>Total</b>	<b>97</b>

**4. PROJECTED TIMELINE**

The project tasks will be initiated within two weeks from the Notice to Proceed and receiving of requested materials.

Huff & Huff, Inc.  
Proposal  
01/02/13

Prepared for: CBBEL  
Project: Village of Orland Park - 143rd Street

	Task	Hours	Labor	Reimbursables	Total
	Field Review / Noise				
1	Monitoring	6.00	567.00	20.40	587.40
2	Noise Model Update	40.00	3,810.00	-	3,810.00
3	Noise Report	51.00	5,060.50	12.00	5,072.50
	<b>Grand Total</b>	<b>97.00</b>	<b>\$ 9,437.50</b>	<b>\$ 32.40</b>	<b>\$ 9,469.90</b>

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 Proposal  
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 Project: Village of Orland Park - 143rd Street

Task		Reimbursables	
<b>1 Field Review / Noise Monitoring</b>			
Trips	20 miles	x 2	x \$ 0.51 = \$ 20.40
			<b>Task Total \$ 20.40</b>
<b>2 Noise Model Update</b>			
			<b>Task Total \$ -</b>
<b>3 Noise Report</b>			
Reproduction	3 sets	x 15	x \$ 0.10 = \$ 4.50
Color copies	3 sets	x 5	x \$ 0.50 = \$ 7.50
			<b>Task Total \$ 12.00</b>
<b>Grand Total</b>		<b>\$ 32.40</b>	