

NOISE ANALYSES SERVICES
SCOPE OF WORK
S-133-14
2011

I. NOISE ANALYSES

The Consultant shall perform noise analyses according to 23 CFR Part 772 and the SCDOT Traffic Noise Abatement Policy. In accordance with the SCDOT Traffic Noise Abatement Policy the Consultant will utilize the latest software specified by the FHWA, identify sensitive receivers in the project corridor, measure existing noise levels and predict future noise levels for all build alternatives under consideration in NEPA document. This includes all reasonable alternatives, but not alternatives rejected for detailed analysis because they are not reasonable. The preliminary noise analysis will model the most conservative noise environment to determine the feasibility and reasonability of noise abatement for any noise impacts.

If noise abatement is determined to be needed, the Consultant shall consider the following noise abatement measures as a means to reduce or eliminate the traffic noise impacts.

1. No Build.
2. Changing the project's horizontal and vertical alignment
3. Traffic control measures
 - i. Traffic control devices
 - ii. Signing for prohibition of certain vehicle types
 - iii. Time-use restrictions for certain vehicle types
 - iv. Modified speed limits
 - v. Exclusive lane designations
4. Construction of a noise barrier, either an earthen berm or freestanding wall

Once a preferred alternative is recommended, the Consultant shall complete a detailed noise analysis for any noise abatement that was determined feasible and reasonable during the preliminary noise analysis.

If a noise barrier is determined to be feasible and reasonable based on the detailed noise analysis, then a detailed noise barrier analysis will be completed. If applicable, the Consultant shall be responsible for holding a public involvement meeting to solicit viewpoints from the benefitted receptors.

II. DOCUMENTATION

The Consultant will be responsible for preparing a complete noise analysis document in accordance with the SCDOT Traffic Noise Abatement Policy. The documentation should clearly describe each alternative under study and detail the adjacent land uses. The report shall be formatted into the following general sections:

1. Executive Summary – Not necessary for reports less than 10 pages in length.
2. Table of Contents - Not necessary for reports less than 10 pages in length.
3. Introduction and Project Information
4. Methodology and Assumptions

5. Traffic Noise Impacts
6. Consideration of Abatement
7. Construction Noise
8. Coordination with Local Officials
9. Appendices

As described in the SCDOT Traffic Noise Abatement Policy the report will include:

1. Traffic data used in the study and assumptions incorporated into the noise model;
2. Results of the preliminary noise analysis;
3. The locations where noise impacts will occur,
4. Locations where noise abatement is feasible and reasonable;
5. Noise impacts for which no abatement appears to be feasible and reasonable;
6. Completed "Feasibility and Reasonableness Worksheet" (refer to example in SCDOT Traffic Noise Abatement Policy);
7. A statement of likelihood (refer to SCDOT Traffic Noise Abatement Policy for example)
8. The Consultant shall identify land uses or activities that may be affected by noise from construction of the project. Determine if measures are needed to minimize or eliminate adverse construction noise impacts to the community.
9. If noise abatement is recommended for construction, the Consultant shall include the following parameters:
 - type of abatement;
 - cost (overall cost, unit cost per/sq. ft.);
 - average height;
 - length;
 - area;
 - location (State, county, city, route);
 - year of construction;
 - average insertion loss/noise reduction as reported by the model in the noise analysis;
 - NAC category(s) protected;
 - material(s) used (precast concrete, berm, block, cast in place concrete, brick, metal, wood, fiberglass, combination, plastic (transparent, opaque, other));
 - features (absorptive, reflective, surface texture);
 - foundation (ground mounted, on structure);
 - project type (Type I, Type II, and optional project types such as State funded, county funded, tollway/turnpike funded, other, unknown).

III. OTHER DUTIES

The Consultant will perform other noise analyses services not specified in the Scope of Work but determined necessary.

NOTICE TO ALL CONSULTING ENGINEERING FIRMS

Solicitation Number S-133-14

The **SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (SCDOT)** requests a letter of interest and a current resume of qualifications from all interested consulting firms experienced in providing **Environmental Noise Analysis** on an on-call basis necessary to provide support to SCDOT Staff in accordance with the SCDOT Traffic Noise Abatement Policy. Requested services include but are not limited to the following Primary Objectives: (1) Utilize the latest software specified by the FHWA. (2) Identify sensitive receivers in the project vicinity. (3) Measure existing noise levels in the project area. (4) Predict future noise levels for all reasonable build alternatives under consideration in NEPA document. (5) Preliminary and detailed noise abatement analyses. (6) Documentation of all findings and results.

The proposed solicitation will span a three (3) year time frame. The SCDOT will select up to six (6) firms with a maximum total amount not to exceed \$1,500,000. Consultants will be evaluated and ranked based on their score during the selection process. Work will be assigned on a Statewide Basis (see supplemental information).

Supplemental information associated with this solicitation is located at the following link:
http://www.scdot.org/doing/constructionLetting_Services.aspx.

For questions, please contact the SCDOT Contracting Officer, Wendy Hollingsworth, at (803) 737-0746 or via email at Hollingswg@scdot.org. Electronic Submissions are due no later than 2:00 PM, June 24, 2014.

Supplemental Information for Environmental Noise Analysis Services

Solicitation Number S-133-14

The proposed solicitation will span a three (3) year time frame. The SCDOT will select up to six (6) firms with a maximum total amount not to exceed \$1,500,000. Consultants will be evaluated and ranked based on their score during the selection process. Consequently, work under each On-Call will initially be assigned based on the consultant's ranking. Once the list has been exhausted, work will then be assigned to best maintain equity in the value of work unless an exception is approved. Exceptions are warranted when specialized experience or knowledge to specific project is required and will require justification. Work will be assigned on a Statewide Basis.

NOTE: Work awarded under this solicitation includes projects that are being administered by SCDOT and funded by other governmental entities pursuant to an IGA or LPA agreement between the SCDOT and the governmental entity. In those cases, a separate agreement between that governmental entity and the consultant will be prepared and administered by SCDOT to cover the services.

A detailed scope of services is located under this solicitation number (S-133-14) @ http://www.scdot.org/doing/constructionLetting_Services.aspx.

In consultant selection, the SCDOT will consider and conduct a comparative ranking of the firms submitting based upon the following:

50%	Experience, qualifications, and technical competence of the staff proposed for the type of work required
25%	Past performance of the firm/team on similar type projects, responsiveness to the SCDOT, and the availability/readiness of the proposed staff
10%	Team composition; ability of firm to perform all aspects of the services
10%	Familiarity of the firm/team with SCDOT practices and procedures
5%	DBE utilization plan

The proposal must contain the following: letter of interest, current resume of qualifications, a direct response to each of the selection criteria identified above, and Standard Form 330 (SF 330) as required by the Federal Acquisitions Regulations. All parts of the SF 330 must be completed in its entirety for the prime consultant, any sub-consultants and any sub-contractors.

Consultants are prohibited from submitting on multiple proposals as the prime consultant in response to this advertisement. The preceding, with the exception of SF 330, shall be limited to 20 double-spaced pages printed on one side only.

To qualify as a DBE on this project, the firm must be listed as approved for the type of work to be performed in the South Carolina Unified DBE Directory at the time of the bid submittal. The directory can be found at the following link:

http://www.scdot.org/doing/doingPDFs/businessDevelop/UCP_DBE_Directory.pdf.

All responding firms must utilize the SCDOT's new electronic proposal submission process. Information regarding Project Wise can be found at the following link: http://www.scdot.org/doing/constructionLetting_ProjectWise.aspx. Please contact Eric Stuckey at 803-737-1003 or StuckeyEC@scdot.org to set up an account to begin utilizing the electronic submittal process.

The SCDOT selection will be based on information submitted; however, additional information and/or an interview may be required.

All responders must visibly mark as "CONFIDENTIAL" each part of their submission that they consider to contain proprietary information the release of which would constitute an unreasonable invasion of privacy. All unmarked pages will be subject to release in accordance with law. Proposer should be prepared, upon request, to provide justification of why such materials should not be disclosed under the South Carolina Freedom of Information Act, S.C. Code Section 30-4-10, et seq.

Consultants and sub-consultants must have an SCDOT approved indirect cost rate prior to contract execution. Please refer to the following link for additional information: http://www.scdot.org/doing/contractor_Audit.aspx.

Consultants shall comply with Title VI of the Civil Rights Act of 1964. The SCDOT strongly encourages the use of and involvement of Disadvantaged Business Enterprises (DBE) on this project.

The contract will be cost plus a fixed fee with a contract maximum, or lump sum, or approved unit cost at the discretion of the SCDOT. There is no guarantee of any specific amount of work.

All electronic proposal submissions and the letter of interest should be addressed to the Contracting Officer, Room 128, at the South Carolina Department of Transportation, P.O. Box 191, Columbia, South Carolina 29202 or 955 Park Street, Room 128, Columbia, South Carolina 29201, no later than 2:00 PM, June 24, 2014.