

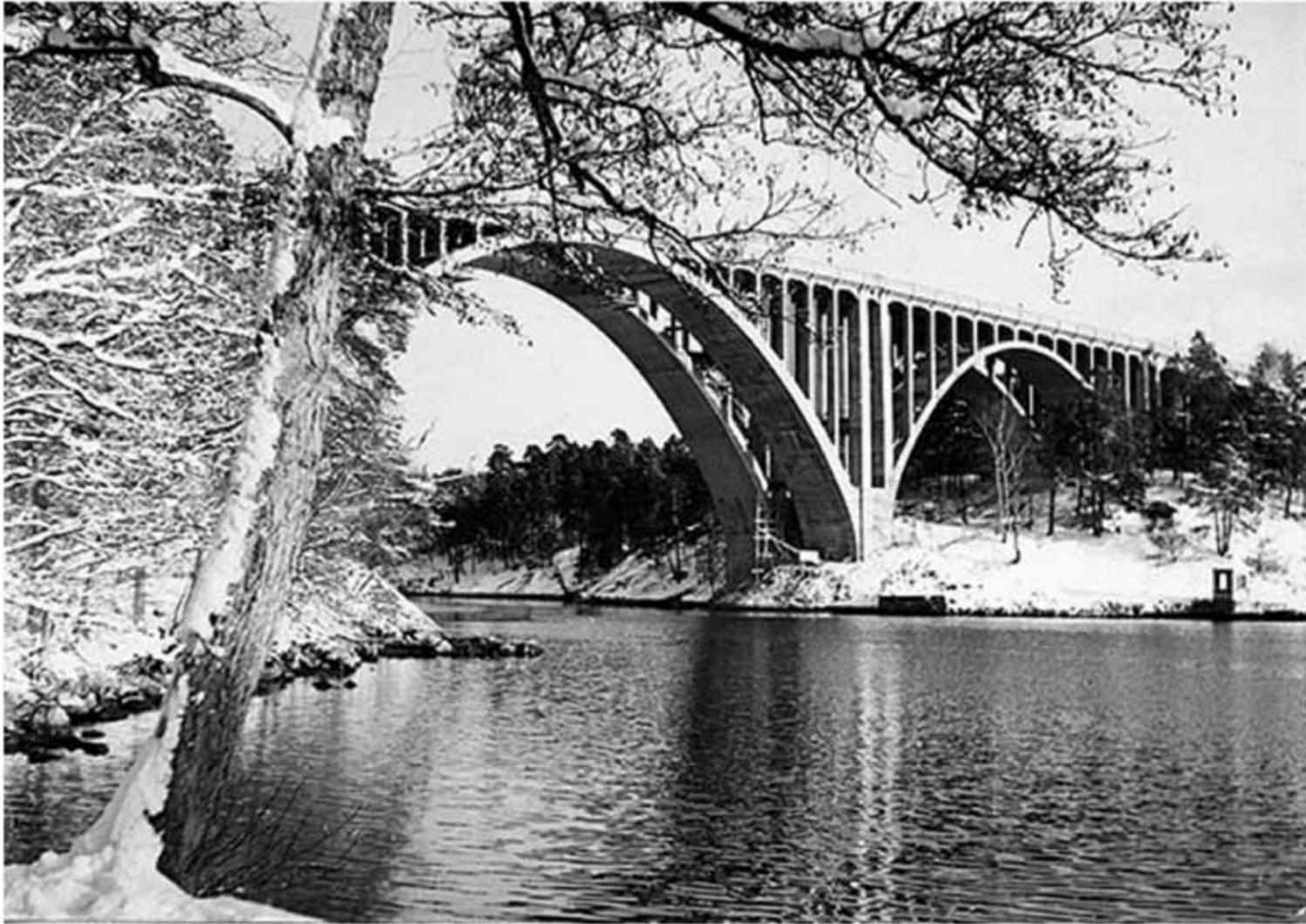
NEW SKURU BRIDGE

Supporting documentation for expression of interest

2011-06-21



TRAFIKVERKET
SWEDISH TRANSPORT ADMINISTRATION



Invitation

The Swedish Transport Administration invites pre-qualification applications for a project competition regarding a new Skuru Bridge. Through an open pre-qualification four applicants will be selected to compete for remuneration. No remuneration will be paid for the pre-qualification. The evaluation will be conducted by representatives from the Swedish Transport Administration and Nacka municipality. The applicants will be informed of the pre-qualification outcome via e-mail on the Swedish transport Administrations' procurement system CTM on September 12, 2011. The competition is primarily intended for persons with design competence within the field of architectural design and bridge construction. Application papers, supporting documentation for expression of interest, can be requested at www.trafikverket.se/skurubron. The competition brief is in preparation and will be distributed to the commissioned teams at the start of the competition.

Background

The Skuru Bridge is located on road 222, Värmdö Clearway in Nacka and is the only road connector between Stockholm and eastern Nacka and Värmdö. The Skuru Bridge is made up of two bridges. The oldest (southern) bridge is one of the first concrete arched bridges in Sweden. The bridge was designed and constructed by AB Arcus with Lars Isak Wahlman as the consulting architect during the period of 1913-1915. The northern bridge was constructed during 1953-57 when the original bridge underwent an extensive remodel. Although half of the secondary columns were removed the essential form and aesthetical awareness of the original bridge was maintained. Today the Skuru Bridge is considered an indispensable symbol for Swedish bridge construction. The bridge has a vertical clearance of 32 meters and a span of 78 meters. The total length is 284 meters.

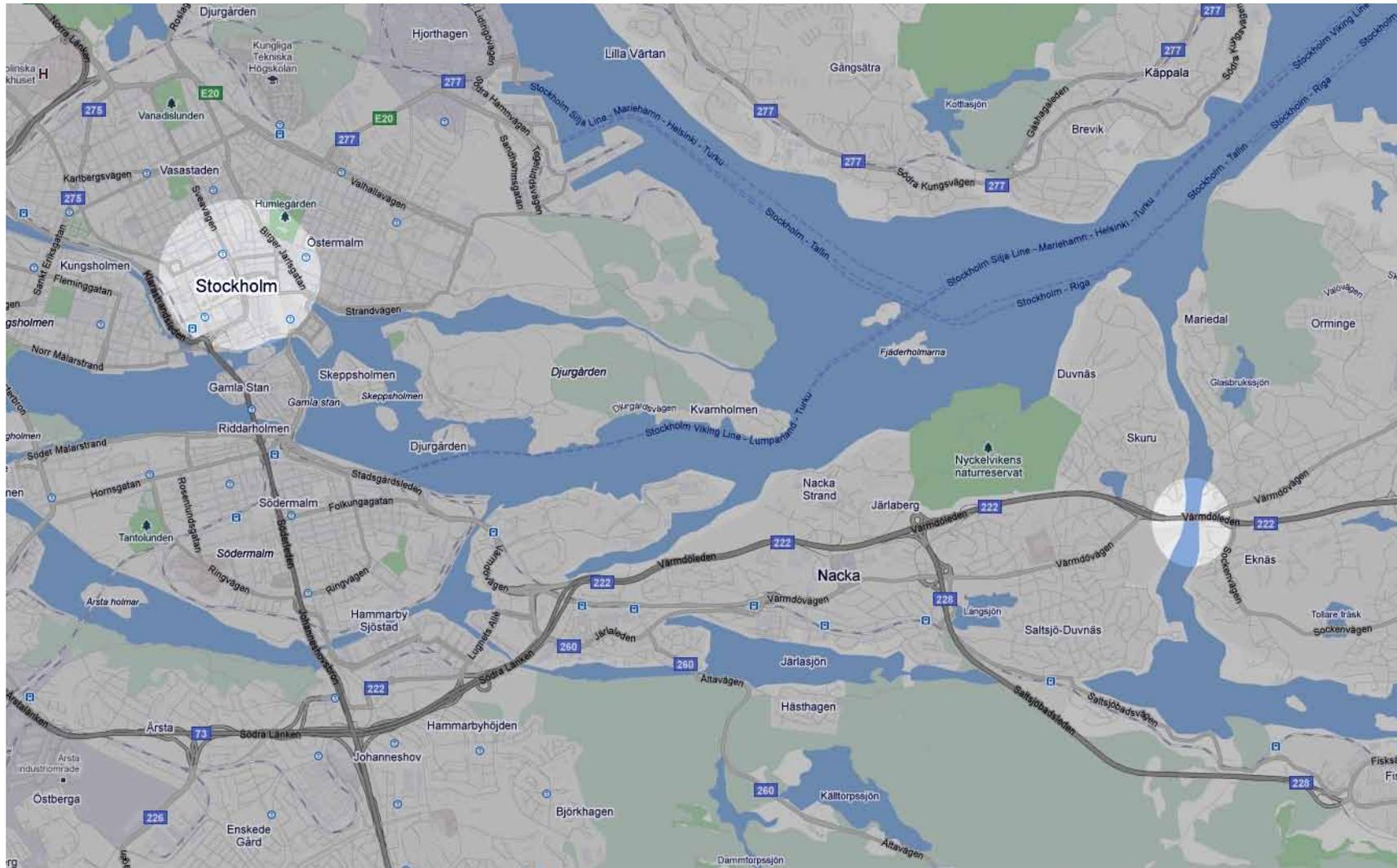
Nacka and Värmdö

Nacka and Värmdö are located southeast of Stockholm. Settlements within Nacka are varied, but characterized by older residential areas and industries from the 1800's and multi-family dwellings from the 1900's. During the 1800's Värmdö became a summer paradise for the bourgeois people and many summer homes were constructed during this time. The heart of Värmdö is Gustavsberg, known for its porcelain industry. The municipal center in Nacka is marked by the shopping center Nacka Forum. Additional commercial centers are located

in Orminge and Sickla. Nacka and Värmdö have experienced an expansive residential housing development during the past years and are planning for further development within the near future. In both municipalities there is a high rate of vacation homes turning into year-around settlements. The high rate of population growth increases the strain on the Värmdö clearway.

Accessibility and Communication

The Skuru Bridge is passed daily by thousands of automobile passengers as well as pedestrians and bicyclists. The bridge is lined with a pedestrian way and cycle track in both directions. The view from the Skuru Bridge is magnificent; however it is hard for drivers to perceive. Public transportation from Stockholm to Nacka and Värmdö mainly takes place by means of bus. The low standard passage over the bridge poses frequent delays at rush hours.



Map shows the location of the Skuru Bridge in relation to Stockholm.

City- and landscape

The Skuru Sound is part of a comparatively hilly archipelago environment. Steep inclines with mixed woodlands and rocky outcrops provide a strong spatial feel. The Skuru Sound inherits a national interest and is frequently passed by boats during summer. Several small boat marinas are located along the sound. Villas and an occasional multi-family dwelling line the sound at both sides. The Skuru Bridge poses a landmark visible from faraway. Värmdö clearway with the junctions at Skuru and Björknäs creates an evident mark in the landscape.

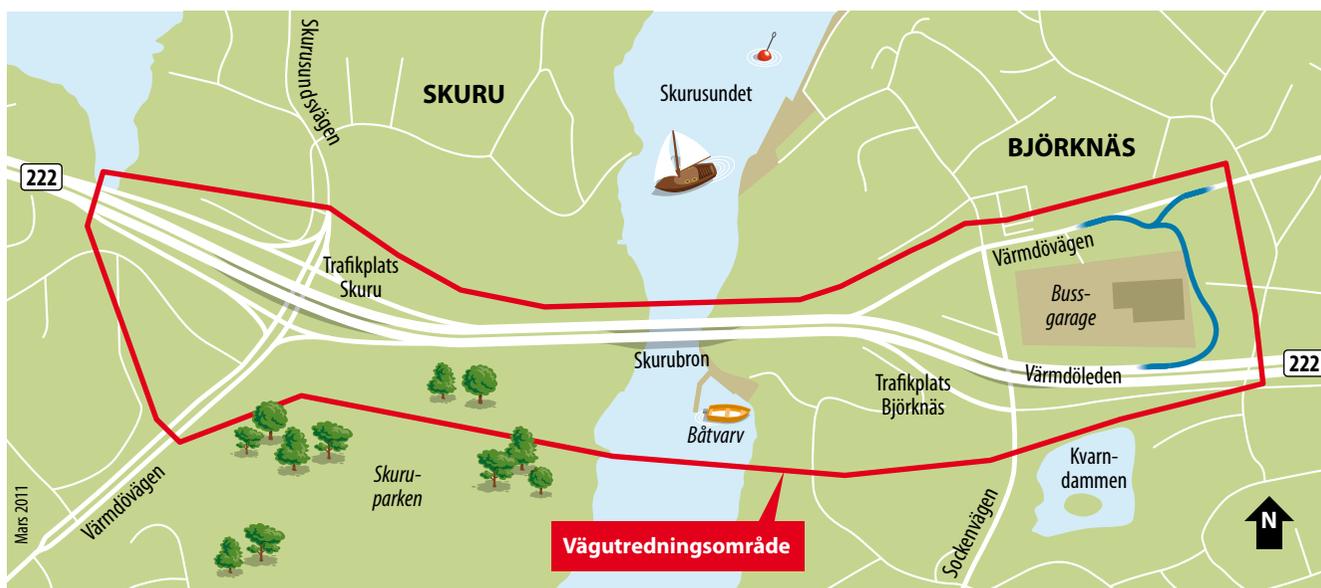
Cultural- and natural values

Southwest of the bridge the Skuru Park forms a green demarcation between water and land. This is the only remaining natural land along the Skuru Sound. The Skuru Park inherits a culturally historical value as a romantic park to the Skuru Estate; commonly referred to as Solsunda. When Värmdö clearway was built in the beautiful valley connecting the estate to the park the visual connections between the two were lost. Today the Skuru Park is made up of the mountainous area with gorges and ravines south of Värmdö clearway. There are several grand oak and pine trees in the area that will most likely be affected by the construction of a new bridge. At present time a protection of this area as a municipal natural reserve is under investigation. This will not affect the reserved road area for a new bridge. The eastern shore is part of a culturally historical valuable environment characterized by buildings and lots,

network of roads- and walking paths that have remained in their original state. No known ancient monuments or relics of ancient cultures can be found in the investigating area.

Future development in the area

Plans exist for a new residential area on the site of the former paper mill at Tollare. A new bridge over the Skuru Sound is an important aspect of the continued planning phase.



The Competition

1.1 Arranger

The competition is arranged by the Swedish Transport Administration and is sanctioned by the Swedish Association of Architects. The competition is arranged in association with Nacka municipality.

1.2 Decisions taken and ongoing decision-making process

In 2007 the Swedish Transport Administration presented a preliminary study, *Väg 222, Värmdöleden Skurubron*, aiming at the study of conceivable measures that would improve the current traffic situation at the Skuru Bridge. A road investigation is in progress during 2010-2011.

1.3 Purpose of the competition

The project competition has the following purposes:

- To acquire design proposals for a new Skuru bridge.
- To appoint supplier for the continuing assignment.

1.4 Number of competitors

A maximum of four competitors will be selected by pre-qualification to take part in the competition. They alone will be entitled to submit competition entries.

1.5 The competition brief

The competition brief is to design a new bridge that coincides with the existing bridge and the surrounding culturally valuable land. The pre-condition for the competition is that the horizontal- and vertical alignment of the new bridge is predetermined. The proposal shall have a durable concept that can be adapted to any adjustments and changes that might occur in the continued planning phase. The design of the new bridge shall adhere to high esthetical demands as well as demands of noise protection. The vision is that the existing bridge, together with the new bridge, shall be functional and appealing.

To meet set project goals the new bridge is planned for regional motorway traffic and public transportation in a requisite number of lanes with the design speed of 90 km/h. Pedestrian ways and cycle



tracks, as well as local automobile traffic, will be allocated to existing bridge. The design of the new bridge needs to be submissive to changes in the future distribution of transportation methods, as well as to behold for future communications. The new bridge shall be designed in accordance with high environmental standards regarding construction and maintenance. In designing the new bridge, attention shall be paid to the life cycle cost (LCC and LCA) of the project. The vertical clearance of the new bridge must not degrade the current accessibility for navigation.

The competition brief emphasizes the design of a new Skuru Bridge, but an all encompassing idea of the aesthetical usage of surrounding areas is also included within the brief.

1.5.2 Project goals

1. Improve accessibility.
2. Improve traffic safety.
3. Decrease vulnerability in the traffic system.
4. Ensure future traffic support to Nacka and Värmdö.

1.6 Remuneration and prizes

Participants qualifying for the invited competition will receive SEK 350,000 remuneration each following correct submission of an entry approved by the jury.

1.7 Post- competition brief

Subject to the requisite decisions being taken in favor of implementation, the arranger proposes, after the competition and in accordance with the jury's decision, to negotiate with the winning supplier, without prior announcement, concerning the architectural brief. The winning proposal shall, by the winning supplier, be developed and further worked into a final design plan for bridge. For this assignment a fixed remuneration of SEK 650,000 will be paid. In the production of construction documents and further into the construction phase the supplier shall act as design support for the Swedish Transport of Administration to ensure that the original design of the winning proposal is not distorted. For this assignment a special remuneration will be paid.



1.8 The competition brief

The competition brief is in preparation and will be distributed to the competitors at the start of the competition.

1.9 Competition jury

A jury for the competition will be appointed comprising of three representatives from the Swedish Transport Administration and one representative from Nacka municipality. An additional two jurors will be appointed by the Swedish Association of Architects.

2. Object

2.1 Description of the object

The Skuru Bridge is located on road 222, Värmdö Clearway in Nacka. Narrow lanes and inadequate alignment result in a low standard passage over the bridge. The entry lanes to the Skuru Bridge lack regulated acceleration lanes which cause incidents and an uneven traffic flow. In the event of a larger accident causing the traffic over the bridge to stop the consequences will be extensive.

The continuing expansive plans of the municipalities are expected to have the Skuru Bridge reach its limit within the near future. The older of the two existing bridges is in a state that calls for a complete rebuild. The newer bridge needs to be completely remodeled.

In the current road investigation three alternative locations for the new bridge are being studied. At the time of competition one of these locations will be recommended. The recommended location is expected to be finalized during the time of competition. The recommended location will be valid for the contestants, but with reservation. If the final location differs from the recommended location, the Swedish Transport Administration has the right to decide whether the winning proposal shall be adjusted thereafter or the competition omitted.



3. Pre- qualification

3.1 Expression of interest

Expression of interests must reach the arranger no later than 2011-08-19 via the procurement system CTM.

3.2 Documents to be included in the expression of interest

Submitted material must be in Swedish, English, Danish or Norwegian. All of the below stated documents must be submitted. No further documents will be considered for evaluation.

- List of material submitted.
- Membership of the team - presentation of persons and their qualifications and of the competition team's representative. CVs are to be submitted for the key members of the team.
- Programme statement, i.e. a brief account of the team's intended approach to the competition brief. No more than one A4 page.

- Each team shall submit a maximum of five, for the competition relevant, reference objects. The projects need not have been performed in the now seeking constellation. Unrealized projects will also be accepted (idea, competition entry etc.). Presented representatives must have been involved in the reference projects. No more than one A3 page per object.

For each reference object, provide:

- A short description of the brief
 - A description of how the design-related and artistic qualities have been dealt with
 - The applicant's role in the project
 - Client, client's contact person (phone number and e-mail address)
- Name, corporate reg. no., address, phone number, e-mail, and webb address. If two or more firms are collaborating, these particulars are to be furnished for each of them.



3.3 Participant selection criteria

The selection will be made in two stages. Stage 1 involves mandatory requirements. All stage 1 requirements must be met for an applicant to proceed to stage 2.

Stage 1

- The expression of interest must have been received within the allotted time (at the latest 23:59, 2011-08-19) and must be in Swedish, English, Danish or Norwegian.
- All requisite documents must have been received.
- Fulfill the demands as stated in the prequalification regulations

Stage 2

The selection of competition participants from the selection of the expressions of interest received will be based on an overall assessment of:

- The applicant's design-related and artistic ability, in the light of the reference objects presented.
- The applicants' capacity for dealing with the preconditions of the site, above all regarding scale proportions, natural qualities and heritage interest.



3.3.2 The evaluation group

A pre-qualification evaluation group will be appointed comprising representatives of the Swedish Transport Administration and Nacka municipality.

3.4 Project language

The competition and project language is Swedish.

3.5 Return of material submitted

Any submitted material in addition to the digital will not be returned.

3.6 Preliminary timetable

- Advertising of expression of interest in pre-qualification: 2011-06-21
- Deadline for submission of expression of interest: 2011-08-19
- Announcement of competition participants: 2011-09-12
- Distribution of competition brief: 2011-10-03
- Start of competition/Inaugural meeting: 2011-10-07
- Closing date for submission of competition entries: 2012-01-03
- Announcement of jury's decision: Mars 2012

Contact

Enquiries during the pre-qualification period may be addressed via the Swedish Transport Administration's procurement system CTM.





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