Carroll Creek Kinetic Art Promenade | Rotary Club of Carroll Creek

Submit a Design – Summary Proposal
(To be submitted by the artisan)

1. SUMMARY PROPOSAL

Carroll Creek Kinetic Art Promenade (CCKAP) intends to maintain high quality standards for the kinetic sculptures that will be displayed in Carroll Creek.

CCKAP has adopted a collaborative approach whereby artisans and sponsors work closely together during the designing stage. The purpose of the Summary Proposals is to validate the designs before they are officially presented to the City of Frederick for final approvals.

Through its Artistic Review Committee, CCKAP will oversee designs and materials used, thus ensuring pride of ownership, appealing esthetics, and longevity for CCKAP throughout the years.

The Artistic Review Committee will consider the responsiveness of the applicant's work to site-specific conditions and the potential of the work to enhance and expand the public's experience of the Carroll Creek Linear Park. It will also evaluate the artwork based on creativity, composition, craftsmanship, diversity, and impact.

The Summary Proposals need to be submitted to CCKAP before 5pm on May 31.

2. DESIGN PARAMETERS

A. **Theme, size, and weight**. Kinetic sculptures may be inspired by themes such as flowers, animals, birds, insects, characters, sport and artistic scenes, trees, stars, and abstracts. They can measure up to 10 feet in height above water, span no more than 12 feet in width, and weigh no more than 500 pounds including their center post. ***The emphasis will be on creativity and esthetics and not necessarily on size.***

B. **Durability**. Kinetic sculptures should be made mostly of metal to withstand the elements, and be durable for a minimum of three consecutive years.

C. **Kinetic ability.** Kinetic sculptures' designs should be such that they generate continuous rotational movement in a light breeze (5-10 mph wind).

D. **Suitability.** The proposed designs should be suitable and acceptable for public viewing of all ages.

E. **Lighting.** Solar lighting is encouraged to enhance visibility from the shore and around the clock enjoyment, and should be integrated within the kinetic sculpture.

F. Ease of installation. Kinetic sculptures should be designed such that they easily fit into the metal stand (Pyramid – ***See Exhibit 1 below***), have a top eyelet of at least 2 inches in diameter or have a structure that can accommodate crane-lifting straps, and be installed in one piece once assembled on site, thus requiring only one crane cycle.

G. Budget. A kinetic sculpture's budget can range up to $15,000, or more if agreed by the sponsor.

3. SUBMITTAL REQUIREMENTS

A. All required application components must be in digital form and should be submitted via one email.

B. Applicant Information. Provide your name, street address, email address, and phone number on each page.

C. Proposal. Illustrate your design/theme and present a brief description of your kinetic sculpture including dimensions and weight, and the position and description of the type of bearings to be used.

D. Animation. Although not mandatory, a short animation of your design has been found to be very helpful in conveying the appeal of a design, even when illustrated on a small scale.

E. Budget. Provide the overall amount needed to design and fabricate your kinetic sculpture.

F. Transmission. Email your submittal materials ***before 5pm on May 31*** to Debbie Powell at rotary@carrollcreekkinecticart.org

Exhibit 1 - Pyramid

A. Description. The Pyramid is a freestanding, submerged, metal structure, with a 5-foot vertical central cylinder (6" x 0.188" OD) with a detachable upper 18-24 inch portion, and supported by four angled braces welded to a 5'x5'x1/2" bottom metal plate sitting on the floor of the creek, which bottom metal plate is framed by 18-inch high lateral plates to form the bottom caisson. At the bottom center of the pyramid's central cylinder and welded to its bottom metal plate is a 3-inch high pipe (3" OD and 2 5/8" ID) which acts as a "Stabilizer".

Below the metal plate, five 3.5-foot angles are welded to the surface to reinforce the base of the Pyramid, and provide sufficient grounding to counter possible slippage. Below its bottom caisson, the Pyramid has a leveling system consisting of height adjusting steel rod legs to be used in corners where needed. The Pyramid weighs approximately 1,360 pounds.

A kinetic art sculpture's main post will slide into the Pyramid's central cylinder, will straddle or fit inside the Stabilizer, and the final vertical adjustments will be made by horizontal bolts located around the top of the Pyramid's central cylinder, and above the water level.

B. Wind loads and overturning forces. The Pyramid is designed to withstand winds of up to 90 miles per hour, and also factors a 1.4 safety margin, in accordance with the International Building Code.

The uplift tolerance of the Pyramid assumes a kinetic sculpture featuring a 30 square foot area exposed to the wind and standing up to 10 feet above water, and is derived from the combined weight of the Pyramid and of the water contained in half of the bottom caisson times the eccentricity of the Pyramid.

C. Design