

**U.S. Army Corps of Engineers  
Fiscal Year 2019  
Handshake Program Application**

**Please review instructions before completing application!**

---

Corps Lake/River Project Name: **Saylorville Lake**  
District / Division: **Rock Island District/Mississippi Valley Division**  
Handshake Proposal Title: **Saylorville Lake Archery Range**  
Corps POC Name: **Justin Roy Edwards**  
Telephone: **(515) 276 - 4656 ext. 6508**  
E-Mail: **justin.r.edwards@usace.army.mil**

---

**A. Checklist:**

1. Will the Handshake funds be spent on Corps facilities and resources that are being fully maintained by the Corps? (not in outgranted parks)  Yes  No
  2. Will the Challenge Partnership agreement be with a non-federal public or private entity(ies)?  Yes  No
  3. Is the proposed activity within current authorities and contained in the annual or 5-year work plan in the approved lake project OMP?  Yes  No
  4. Have all of the NEPA requirements been considered for this project?  Yes  No
  5. I am aware the Challenge Partnership Agreement must be reviewed and Approved by District Office of Counsel before sending to HQUSACE.  Yes  No
  6. If the full funding amount requested is not available, could a portion of this Handshake Project be completed with partial funding?  Yes  No
  7. I am aware that all government funds must be spent in accordance with FAR, DFAR and AFAR contracting laws and regulations, and that Handshake funds cannot be provided to the partner(s).  Yes  No
  8. Did you participate in a Handshake Webinar in 2018 or review a 2018 Handshake Webinar on the Gateway?  Yes  No
- 

**B. Handshake Funding Request (maximum \$20,000): \$20,000**

**C. Incentive Points Category: Check the appropriate box if your application qualifies to receive bonus points on the evaluation score.**

- This Lake/River Project has never received Handshake funding (250 points).
- This Lake/River Project has received Handshake funding, but more than 10 years ago (FY 05 to FY 09 program funds) (150 points).
- This Lake/River Project has received Handshake funding, between 5 - 10 years ago (FY 10 to FY 14 program funds) (100 points).

**D. Describe your partnership and the proposed Handshake Partnership Project:**

Project applications will be evaluated on the categories below. Please complete each section as appropriate.

**Summary Statement:**

Saylorville Lake is located on the Des Moines River in central Iowa, just north of the city of Des Moines. Funding will support the development of an archery range in the Bob Shetler Recreation Area. The project is divided into two construction phases. The first phase, utilizing partner donations, in-kind labor and handshake funds, we will establish a range that will feature a handicap accessible paved walkway that leads to an elevated shooting structure (example #1 & #2). This will feature three ground (paved) and three elevated shooting stations. The canopy covered wooden target structures will be stationed straight out from the shooting stations; for a total of 3 structures. The structures will be ranged at 20, 30 and 40 yards. Targeting areas will allow for paper and 3-D targets to be utilized. The paved walkway will continue past the elevated shooting structure leading to five additional ground level shooting stations. The ranges will feature 10, 20, 30, 40 and 50 yards, with packed gravel shooting lanes. These ground stations will also feature the canopy covered wooden structures (example #3).

In the second phase of the archery range, we will be constructing supporting facilities, such as a wooden pavilion with a cemented pad, solar powered pit bathrooms (handicap accessible), kiosk for interpretative signage and enhancing the surrounding prairie as needed; to ensure a healthy native savanna.

**Handshake Funding Cost Break Down:**

- Elevated Shooting Stand
  - Materials – wood, screws, bolts, stain, etc. - \$2,543.17
- Shooting Target Structure
  - Materials – wood, screws, bolts, stain, etc. - \$1,953.76
- Fencing Contract
  - Fencing, Labor, and Contracting Fees - \$11,700.00
- Cement Pathway
  - Cement and Trucking Delivery - \$3,240.00
- Limestone Chip Paths
  - Rock and Truck Delivery- \$600
- Morrel Archery Targets/Replacement Covers
  - Archery Supplies and Shipping - \$2,215.92
- Kiosk
  - Kiosk and Shipping- \$1,616.59
- **Total: 23,869.44**

**Longevity / O&M description:**

The Archery Range is part of the Saylorville Lake Operational Management Plan for 2017-2021 task to be developed in 2019 as well as identified in our 2015 revised & approved Master Plan. Additionally, it was identified in MP update from within our project, we are pleased to be partnering with the Carpenters Local 106 to construct this elevated shooting structure; to be constructed from treated wood. Once completed, periodic maintenance will be provided by Saylorville Lake maintenance staff. The elevated shooting structure will undergo a mandatory five year inspection that will be done by MVR Structural Engineers, ensuring the safety of the structure for archery ranger users. The lifespan of the final project will last 30 years and beyond.

For safety concerns, a round rail fence will be added around part of the parking lot and a portion of the archery range perimeter. With signs being added to the fencing rail and surrounding area to alert park visitors, when near. As an added safety feature, a signal flag pole will be established on the range to signal to spectators, newly arrived archers and park visitors that an archer (or archers) is on the range shooting.

**Partnership Value:**

The estimated cost of this project \$52,510.00. The Sportsmans Warehouse is donating \$500 and the Iowa NWTF - Johnston Chapter is donating \$250 towards archery range supplies. Bass Pro is donating \$500 in (4) targets and (4) bows for youth interpretive programs. Manatts is donating \$1,200 of cement for walkways. Martin Marietta is donating \$600 of crushed rock for pathways out to target structures. Leachman Lumber Company is donating \$1,600 for the elevated shooting structure and ground targets. The local Boy Scouts of America - Troop 202 will have 18 volunteers to assist us in constructing and setting the target structures, totaling \$3,500. Lastly, the Local 106 Carpenters Union - Apprentices will be donating \$7,020.00 of their labor to construct the elevated shooting structure as well as renting \$1,500.00 in equipment to complete the job.

**Recreational Benefit:**

Saylorville Lake's recreation areas, trails, and water add to the attractiveness, vitality, and appreciation for the outdoors. These areas provide a sense of place and allow a growing population in the Des Moines Metro Area to enjoy outdoor recreation opportunities in an ever growing suburban landscape. The majority of the visitors to Saylorville Lake come from within a 50-mile radius of the metro area. Saylorville Lake provides an "island of green" centered in the middle of suburban sprawl surrounding the lake. Iowa State University recently conducted a study jointly funded by the Iowa DNR and the U.S. Environmental Protection Agency. As Iowa tries to balance Federal water quality requirements, the economic viability of rural areas, and concerns for the environment, it is more important than ever to understand the value that Iowans place on preserving and restoring lake projects. A critical step in this process is to understand the trends in usage of lakes over time. The Iowa Lakes Valuation Project is an ongoing economic study to advance our understanding of lake visitation patterns and preferences of Iowans related to over 130 important lakes in the State of Iowa. This most recent survey indicates that Iowans visited lakes in the state substantially more than in any of the base years of the study. Saylorville Lake was ranked as the most visited lake by respondents in the study. While visitation in recreation areas remains strong with an average of over 2 million visits per year, there are indications that there is new demand for upgraded facilities and non-traditional recreational opportunities. The popularity and demand of archery ranges have become apparent in the region and has shown to be an example of an unmet recreational demand around the Des Moines Metro Area. Throughout the recent Master Plan update process, numerous focus groups insisted that an archery range be built to expand opportunities in the growing sport of Archery. The nearest free public facility is located 50 miles south of the project outside the viable Des Moines Metro Area. The flexibility and design of the facility will appeal a broad range of visitors. The Bob Shetler Recreation Area is one of our most visited parks during the year and allows space for this potential new development. The design proposed under this project will provide a safe environment, and the ability to provide a facility for archery education clinics for youth and adults, organized adult and youth competitions, and a facility for visitors to practice their desired archery discipline.

**Environmental Stewardship Value:**

Iowa is a state of altered landscapes with only less than 1% of its original habitat remaining. The state is known for its agriculture and has very little public lands. That is why it is so important to restore and maintain the small pieces of native ecosystems that remain. The Saylorville Lake Project contains hundreds of acres of restored tall grass prairie and oak savanna habitat. These areas are essential to the perseveration of local flora and fauna. Restoration sites also provide an outdoor classroom for students ranging from elementary school to college classes. An opportunity to study native species, restoration techniques, and glance into Iowa's past. This archery range will be located inside one of Bob Shetler prairies (see map). This area will remain as an established prairie, scattered with oak trees; creating a future oak savanna. More oak trees will planted in this area after construction and further enhancement of the prairie forbs and grasses. This natural landscape blended with the archery range provides an outdoor experience that connects users to nature; while they practice and improve their skills target shooting. The Environmental Stewardship program at Saylorville Lake will utilize a small space for a kiosk that will display information about bow hunting laws, local urban bow hunting programs, and youth and adult archery programs located in the Polk County area. An interpretive aspect will also be present to enhance the message of ethical public land use, the value of the natural resources, and safety aspects of enjoying outdoor recreation in the natural environment.

**Communication & Education Value:**

This project establishes a foundation for archery education and opportunities for the advancement of the shooting sport within the state of Iowa along with educational opportunities for all ages of outdoor sports men and women. It provides a facility that is blended perfectly with the natural landscape where individuals, families and local groups (such as k-12 schools, 4-H, Boy Scouts of America, and Boys and Girls Clubs, etc) can continue to improve and/or learn archery. The archery range will create a pathway for youth to enjoy, understand, and connect with nature in an exciting and active way. Additionally, it will provide a staging area for the Saylorville staff to provide interpretative programs that are engaging for youth and adults, educating them in the use and proficiency of bow and arrow use as well as hunting laws and opportunities.

**Innovativeness:**

This project is not only a new addition to Saylorville Lake, it is an effective component that goes along well with our 'NEW' Des Moines Area Urban Wildlife Refuge Partnership (MOA); which is currently in its final stages of being signed by all involved parties. The U.S. Fish and Wildlife Service, Iowa Department of Natural Resources, Polk County Conservation Board, City of Des Moines and U.S. Army Corps of Engineers (Saylorville Lake and Lake Red Rock) have partnered together to form an MOA that will work to be incorporated into diverse partnerships to facilitate a science-based conservation message and reach inner city youth and families. By working with local management areas within the Des Moines Metro areas, the partnership will engage a diverse urban community to nurture and instill an appreciation of wildlife conservation as well as provide the delivery of environmental education, interpretation and outreach programs. What this means, is that Saylorville Lake Archery Range will not only be used as a public space for archery practice, but an area that can be reserved and utilized for youth/adult archery programs. Program focused curriculum will teach the proper use and techniques of archery shooting as well as the recreational benefits of being outdoors target shooting and hunting.

Contributions from partners and funding provided by the Handshake Program go much further than providing material for the establishment of this archery range. It reaches out into surrounding communities as it will play a vital role as part of the Des Moines Area Urban Wildlife Refuge Partnership; working to create an urban presence in the largest and most diverse city in Iowa. USACE is committed to providing quality outdoor experiences and recreation opportunities for all park visitors.

**Conclusion:**

In conclusion, Saylorville Lake's vision for the future management of the environmental and recreational resources will be managed to protect, conserve, and sustain natural and cultural resources, especially environmentally sensitive resources, and provide quality outdoor recreation opportunities that complement project resources for the benefit of present and future generations. The development of this facility will support that vision with our proposed construction of a Saylorville Lake Archery Range and new MOA in the Des Moines Area Urban Wildlife Refuge Partnership. The USACE continues show our unwavering commitment towards environmental education as well as providing safe, fun and engaging recreation opportunities for park visitors as well as urban youth and families in the surrounding Des Moines metropolitan area. This archery range would serve as worthy investment, that both the Corps, its partners and the community see as a valuable asset and addition for resources provided to the Central Iowa region.

Double click on spreadsheet to access data entry fields and to enter Partner names.

**You MUST enter partner names into the spreadsheet:**

	<b>Local Corps Office</b>	<b>Handshake Funds</b>	<b>Carpenters Union - Local 106</b>	<b>Boy Scouts of America - Troop 202</b>	<b>Leachman Lumber Company</b>	<b>Manattas</b>
Salaries	\$13,340	N/A	\$0	\$0	\$0	\$0
Travel	\$0	N/A	\$0	\$0	\$0	\$0
Materials and Supplies	\$1,000	\$20,000	\$0	\$0	\$1,600	\$1,200
Equipment Use	\$1,500	N/A	\$1,500	\$0	\$0	\$0
Funds Contributed	N/A	N/A	\$0	\$0	\$0	\$0
Personal Property	N/A	N/A	\$0	\$0	\$0	\$0
Volunteer	N/A	N/A	\$0	\$3,500	\$0	\$0
In-Kind Services	N/A	N/A	\$7,020	\$0	\$0	\$0
Other (explain below)	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$15,840</b>	<b>\$20,000</b>	<b>\$8,520</b>	<b>\$3,500</b>	<b>\$1,600</b>	<b>\$1,200</b>
<b>Share of Total Cost</b>	30.2%	38.1%	16.2%	6.7%	3.0%	2.3%
	68.3%					

	<b>Martin Marietta</b>	<b>Sportsman Warehouse</b>	<b>Bass pro</b>	<b>NWTF</b>	<b>Partner 9</b>	<b>Partner 10</b>
Salaries	\$0	\$0	\$0	\$0	\$0	\$0
Travel	\$0	\$0	\$0	\$0	\$0	\$0
Materials and Supplies	\$600	\$500	\$500	\$0	\$0	\$0
Equipment Use	\$0	\$0	\$0	\$0	\$0	\$0
Funds Contributed	\$0	\$0	\$0	\$250	\$0	\$0
Personal Property	\$0	\$0	\$0	\$0	\$0	\$0
Volunteer	\$0	\$0	\$0	\$0	\$0	\$0
In-Kind Services	\$0	\$0	\$0	\$0	\$0	\$0
Other (explain below)	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$600</b>	<b>\$500</b>	<b>\$500</b>	<b>\$250</b>	<b>\$0</b>	<b>\$0</b>
<b>Share of Total Cost</b>	1.1%	1.0%	1.0%	0.5%	0.0%	0

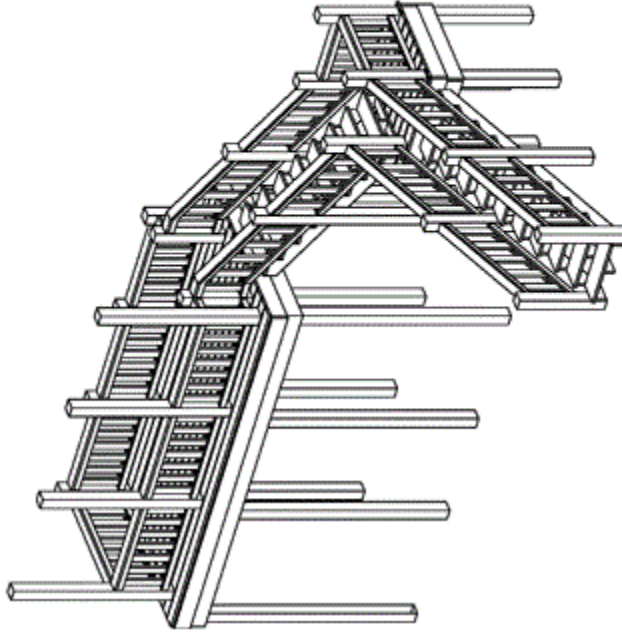
	<b>Partner 11</b>	<b>Partner 12</b>	<b>Partner 13</b>	<b>Partner 14</b>	<b>Partner 15</b>	<b>Total</b>
Salaries	\$0	\$0	\$0	\$0	\$0	\$13,340
Travel	\$0	\$0	\$0	\$0	\$0	\$0
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$25,400
Equipment Use	\$0	\$0	\$0	\$0	\$0	\$3,000
Funds Contributed	\$0	\$0	\$0	\$0	\$0	\$250
Personal Property	\$0	\$0	\$0	\$0	\$0	\$0
Volunteer	\$0	\$0	\$0	\$0	\$0	\$3,500
In-Kind Services	\$0	\$0	\$0	\$0	\$0	\$7,020
Other (explain below)	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,510</b>
<b>Share of Total Cost</b>	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Explanations: NWTF, Bass Pro and Sportsman Warehouse will be providing cash and material donations, which will go towards the purchase of archery range targets and archery supplies for youth programming.

Aerial View of Proposed Site



CONSTRUCTION PLANS FOR  
ARCHERY SHOOTING PLATFORM #1



ATIA

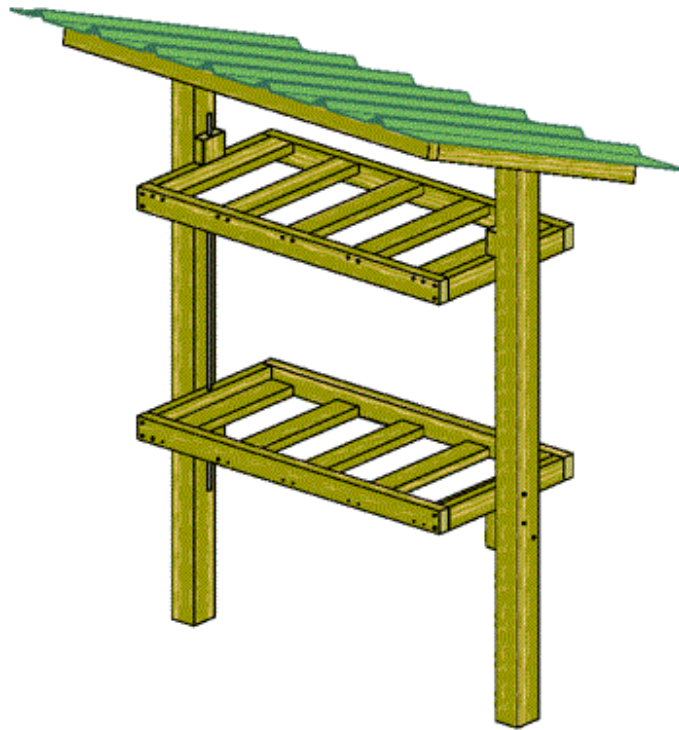
Example #2 of Shooting Structure





Example #3 of Canopy Target Structure

# CONSTRUCTION PLANS FOR TARGET SHELTER



ARCHERY TRADE ASSOCIATION