

Scope of Work

Picture Canyon – Rio De Flag Meander Restoration

Submitted to:

City of Flagstaff
211 West Aspen Street
Flagstaff, Arizona 86001

Point of Contacts:

Malcolm Alter, Floodplain Administrator
David McKee, Project Manager, Watershed Specialist

Submitted by:

Natural Channel Design, Inc.
206 S. Elden St.
Flagstaff, AZ 86001
928-774-2336

Point of contact: Allen Haden (Project Manager)

Allen@NaturalChannelDesign.com

February 2013

SCOPE PURPOSE AND BACKGROUND

The Picture Canyon – Rio de Flag Meander Restoration Project is a stream and wetland enhancement project located on City of Flagstaff (COF) property downstream of the Wildcat Hills Wastewater Treatment Plant. The purpose of the project has been to restore and enhance approximately 12 acres of riparian habitats along the Rio de Flag. Restoring channel meander and floodplain function, control noxious weeds, restore native riparian and wetland plant communities, increasing plant species diversity, create additional wetland habitats, improve water quality, increase wildlife habitats, and provide recreation and aesthetic benefits. This project has been funded in part by the Arizona Water Protection Fund Grant No. 07-141WPF. Since prior to grant funding Natural Channel Design, Inc. (NCD) has assisted the COF with multiple tasks outlined in the grant. These include, project planning, design of earthwork and revegetation, construction management, management of weed treatment implementation, project monitoring, public outreach and education.

Recently the Arizona Water Protection Fund and the COF have expanded the cost, scope and grant period to allow similar work on an additional 28 acres along the Rio de Flag, adjoining the original Picture Canyon project area and upstream of the wastewater treatment plant. The Arizona Water Protection Fund and COF want to apply the same successful restoration techniques to this additional work area.

The purpose of this change order scope is to outline additional services and costs provided by Natural Channel Design, Inc. to meet COF goals on the additional project area while continuing to provide services provided in the existing scope and budget for this contract. The costs and services proposed in this scope are in addition to the ongoing services provided to COF.

SCOPE OF SERVICES

STATEMENT OF WORK

This proposal is to provide professional engineering services to the City of WPF No. 07Flagstaff on the amended Picture Canyon – Rio de Flag Meander Restoration Project, Grant Work is broken down into the following subtasks:

Task 1 Permits Clearances and Authorizations

1. Sub-contractor agreements
2. SHPO clearance documentation, if necessary
3. Land Ownership Documentation
4. Adjacent Landowner Access Agreements
5. Clean Water Act 404 Permit, if necessary
6. Section 7 consultation, if necessary
7. Coconino County Grading Permit
8. Pollution Prevention Plan
9. COF Grading Permit
10. Applicable COF zoning/floodplain ordinances
11. Applicable Coconino County zoning/floodplain ordinances

Deliverables: Permit applications as required.

Cost: \$7,975.00

Task 2 Develop Phase II Final Design Plan

Description: Provide grading and debris removal plan and volumes

Cost: \$13,100.00

Task 3 Amend Project work plans

Amend current work plans to include new phases of work.

1. Noxious Weed Management Plan
2. Project Management & Fencing Plan
3. Monitoring Plan
4. Public Outreach Plan

Deliverables: Amended Reports as required.

Cost: \$2,175.00

Task 4 Implementation of Noxious Weed Management Plan

Planning and implementation of noxious weed management on the project area. Including working with subcontractors and COF to effectively manage invasive weeds.

Deliverables: Noxious weed treatments and reports as required for billing and AWPf reimbursement.

Cost: \$28,480.00

Task 5 Implementation of Construction

Implement earthwork and construction items developed in design plan.

Deliverables: Final Construction Report

Cost: \$113,300.00

Task 6 Implementation Revegetation

Implementation of revegetation items developed in design plan.

Deliverables: Final revegetation report

Cost: \$38,950.00

Task 7 Implementation of the monitoring plan

Implementation of annual project monitoring for 2013 and 2014.

Deliverables: Annual monitoring reports for 2013 and 2014.

Cost: \$12,000.00

Task 8 Implementation of Public Outreach Plan

Implementation of items outlined in revised public outreach plan in cooperation with COF and others.

Deliverables: Progress reports as required for billing

Cost: \$1000.00

Task 9 Final Report

Development of final report for entire Arizona Water Protection Fund project (Phase I &II).

Deliverables: Final Project Report for AWPf

Cost: \$0.00 Cost is covered under original agreement

Total Additional Cost: \$216,980.00

BUDGET PROPOSAL

Fees:

TASK 1	\$7,975.00
TASK 2	\$13,100.00
TASK 3	\$2,175.00
TASK 4	\$28,480.00
TASK 5	\$113,300.00
TASK 6	\$38,950.00
Task 7	\$12,000.00
Task 8	\$1,000.00
Task 9	\$0.00
TOTAL	\$216,980.00

NCD Standard Fee Schedule:

Senior Licensed Civil Engineer	\$85.00/hour
Riparian Specialist	\$80.00/hour
Engineer-In-Training	\$65.00/hour

Per Diem: \$34.00/person/day

Mileage: \$0.45/mile

Lodging expenses will be billed as reimbursable

Direct expenses will be billed with a 10% administration fee.

Services Not Included

Additional work that may be indicated by the discovery of unanticipated conditions in the field or revisions instigated by others will be performed, only upon your authorization, in accordance with our current standard fee schedule as shown below. In the event that outside services required by NCD are substantially outside the costs developed for this budget, NCD will coordinate with COF for additional funding or project scope and design changes.

NCD is not responsible for any task not specifically noted in this scope of work. NCD is not responsible for any agency and/or permitting fee. It is assumed that sufficiently detailed topographic survey of the site exists to develop design plans without significant additional survey time.