Restoration Implementation

NRCS Engineers
Application, Ranking, Offers, Restoration – One engineer’s opinion of timeline

- Engineering Schedule
  - Application phase, fast and furious, ~ 2 months
  - ACEP Team executes supplement (offers), ~ 6 months
  - ACEP Team works their magic and easement is closed ~ 1 ½yr

  - WRPO required to be obligated, 3 yrs after offer
  - Restoration completion, 3 yrs after Easement Closed
Final Design Phase

- Construction Plans & Specs
  - What you want (Plan)
  - When you want it (Sequence)
  - How you want it (Specs)
  - How much of it (Quantities)
Final Design Phase

- Final Deliverables
  - Construction Plans
  - Construction Specifications
  - Bid Packet

Sealed proposals will be received at the Upper Big Blue NRD office, 319 E 25th Street York, NE 68467, until 3:00 p.m., Tuesday, May 9, 2017. The project construction plans and specifications are included with this invitation and generally consist of a pond restoration consisting of site preparation, structure removal, excavation, earthfill, installation of principal spillway riser / pipe / trash rack, and critical area seeding.

The proposals shall be made on the enclosed bid schedule. The bid must be received by the deadline above and submitted in a sealed envelope with the structure name "<Project Name>".

The Upper Big Blue NRD reserves the right to accept or reject any and all bids submitted. The NRD cost share rate will be 75% of the low-bid lump sum total. The contractor’s lump sum total bid is calculated by summing eligible line items. Line item costs are based on contractor’s unit costs multiplied by planned quantities in the bid schedule. The landowner is required to obtain bids from three contractors to establish the maximum cost-share.

Any quantity adjustment above those in the bid schedule must receive approval from the Upper Big Blue NRD. The contractor is obligated to immediately notify the NRD or NRCS and owner operator of construction problems in order to facilitate practical, functional, and cost-effective project modifications. These problems may be associated with differing site conditions, construction staging and measurements, conflicts between plan drawings and specifications, defective materials, or other issues.

Final payment will be authorized by the NRD and issued to the landowner as soon as the structure has received final inspection and certification from the NRCS. Landowner is responsible for paying contractor.

Submit bid to:

- <Project Name>
- Attn: Jack Young
- Upper Big Blue NRD
- 319 E 25th Street
- York, NE 68467

If you have any questions, please contact the NRD or NRCS office at the number listed above.

Sincerely,

Nate Garrett, P.E.
NRCS Area Engineer

Enclosures
Bid Opening

• Contracting
  ◦ Low bid higher than the allocated funding (prelim cost estimate)
    • Engineers determine why and if the increase is justified, Team Lead requests current year money for additional overrun
  ◦ Low bid higher than the easement acquisition cost (Rejection)
Bid Acceptance

- Engineering sends Team Lead:
  - Request for CPC
  - Bids including low bid
  - Construction plans/specs
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Wetland Restoration Techniques

- **Sandhills Wetlands/Groundwater Interception**
  - Ditch Plugs
  - Berms
  - Water Control Structures

- **Streams / Rivers**
  - Sheet Pile Weir, Rock Chute, Articulated Concrete Mat
  - Meander Reconstruction
  - Slough Restoration
  - Bank Stabilization
  - Fish Passage

- **Playas**
  - Depression geometry intact? Pits or other excavations.
  - Runoff diverted away from depression?
  - Soils – Sediment, depth to Bt
Wet Meadows, Ditch Plugs
Wet Meadows, Ditch Plugs

https://sandhillstaskforce.org/project/awesome-project-1/
Water Control Structure
Water Control Structure
Water Control Structure, CMP Weir

Pipe Q >= Channel Q
Water Control Structure, CMP Weir
Water Control Structure, CMP Weir
Sheet Pile Weir
Sheet Pile Weir, Cross Vane
Block Vortex Weir
Rock Chute
Flexamat
Flexamat
Flexamat (1 year)
Flexamat (5-year)
Meander Reconstruction
Meander Reconstruction (1-year)
River Sloughs
Playa Pitfill
Playa Pitfill
Playa Runoff Diversions

Modified Flowpath

Constructed Flowpath
Fish Passage / Roughened Channel
Fish Passage / Fish Ladder
Fish Passage / Fish Ladder
Fish Passage / Flood Plain Modeling
Carp Screen
Sediment Removal
Sediment Removal

7-25-2011

2/23/2011 (post-construction)