Haypress Meadows, Dalton Canyon, Abel Spring and Stoker Spring Habitat Improvement Projects Bid Request

7/6/2018

PURPOSE
Work performed under this scope includes furnishing labor and equipment to construct the following projects:

- Haypress Meadows Fences: install 10,354 ft of pipe rail fence at three sites, two-12 or 14 ft. cattle guards (which will be provided) and 936 ft of temporary barbed/smooth wire cross fences (three) to improve Haypress Meadows and associated riparian area for wildlife benefits.
- Dalton Canyon Springs: install 2,137 ft of pipe rail fence at two sites and a 944 ft of temporary barbed/smooth wire cross fence to improve Dalton Canyon Springs and associated riparian area for wildlife benefits.
- Abel Spring and Stoker Springs: install 1,021 ft of pipe rail fence at two sites to improve Dalton Canyon Springs and associated riparian area for wildlife benefits.

Additionally, this SOW may include transporting the material from Smith Creek Ranch (Desatoya Access point) or Mason Valley Wildlife Management Area (1 Lux Lane, Yerington, NV 89447) to the project site.

LOCATION, COORDINATES & ACCESSIBILITY
The project area is located in the Desatoya Mountains, in Lander County, Nevada (vicinity and project maps). The project is on land managed by the Bureau of Land Management.

<table>
<thead>
<tr>
<th>Site</th>
<th>Coordinates (UTM’s 11 Datum NAD 1983)</th>
<th>Legal Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haypress Meadows – Upper Meadow</td>
<td>439873 m E  4352166 m N</td>
<td>Section 22, Township 17 N, Range 38 E</td>
</tr>
<tr>
<td>Haypress Meadows – Middle Meadow</td>
<td>439418 m E  4352801 m N</td>
<td>Section 21, Township 17 N, Range 38 E</td>
</tr>
<tr>
<td>Haypress Meadows – Lower Meadow</td>
<td>439547 m E  4353734 m N</td>
<td>Section 21, Township 17 N, Range 38 E</td>
</tr>
<tr>
<td>Dalton Canyon - Upper Spring</td>
<td>443153 m E  4354827 m N</td>
<td>Section 13, Township 17 N, Range 38 E</td>
</tr>
<tr>
<td>Dalton Canyon - Lower Spring</td>
<td>443457 m E  4356711 m N</td>
<td>Section 14, Township 17 N, Range 38 E</td>
</tr>
<tr>
<td>Dalton Canyon – Cross Fence</td>
<td>443211 m E  4357401 m N</td>
<td>Section 1, Township 17 N, Range 38 E</td>
</tr>
<tr>
<td>Stoker Spring</td>
<td>449138 m E  4370134 m N</td>
<td>Section 28, Township 19 N, Range 39 E</td>
</tr>
<tr>
<td>Abel Spring</td>
<td>451598 m E  4373627 m N</td>
<td>Section 14, Township 19 N, Range 39 E</td>
</tr>
</tbody>
</table>

The nearest full support community to the project is Fallon, NV. Average travel time from Fallon to the project sites is ~2 hours. Access to the treatment areas will generally be ~73 miles to the Smith Creek Ranch Road and then ~14 miles of dirt roads to Smith Creek Ranch. The Haypress Meadows and Dalton Canyon project sites are located ~7 miles above Smith Creek Ranch on a two-track road. The Abel and Stoker Springs project sites are located ~13 miles North of Smith Creek Ranch. Access can be limited during the winter months due to muddy and/or snow covered roads. Four wheel drive vehicles are recommended. We do not assume obligation to plow snow or conduct special maintenance to keep roads open and maintained. The Contractor shall be held liable and is responsible for any damages caused by their personnel and/or equipment to any improved and unimproved road, ditch, culverts, signs, or survey monuments.
BOUNDARIES/WORK LAYOUT
The Nevada Department of Wildlife will set flags or fence posts within site distance to give the Contractor lines and angles necessary to execute the work specified under the contract after the bid has been awarded. The Contractor shall, immediately upon entering the project site for the purpose of beginning work, locate all reference marks and take such actions to prevent their destruction. For new fences cattle guards, and drainage crossings, will be as shown on location map, drawings, or staked on the ground. Changes in the location or the construction of any portion of the fences can only be made if agreed upon by both the contractor and the Contract Administrator.

SCHEDULE/PROGRESS OF WORK
The notice to proceed for this treatment will be issued in the summer/fall of 2018. Our preference is to initiate and complete the Haypress and Dalton Meadows Projects by December 1, 2018. However, should road conditions restrict access to the project site and delay project completion, the project could be completed during the following spring. All projects, including Abel and Stoker Springs, should be completed by August 1, 2019.

Pre-Work Conference
The Pre-Work Conference will be held prior to the start of work. The Contractor will be notified in advance of meeting time, date and place to review required work, project drawings, specifications, construction schedules, payroll, payments and administrative provisions of the Contract. The Contractor and subcontractors or their authorized representatives and the persons responsible for coordination of the work shall be present at the meeting. The Contractor shall be prepared to present the work schedule and summarize and explain work procedures planned for the project. Should the contractor need to delay the project beyond what is presented in the pre-work conference, then the contractor should notify the Contract Administrator immediately.

Progress Meetings
Progress meetings may be held at the project site, in Fallon or Reno, NV or where necessary or as determined by the Contracting Officer. Progress meetings/calls may be called by either the Contracting Officer or the Contractor. The request shall state who should attend and include an agenda.

Final Inspection
The Final Inspection will be held at the project site, or as determined by the Contract Administrator. The Contractor shall notify the Contract Administrator in writing and by phone at least three working days before the completion date so the Government can schedule final inspection. The Contractor or the Contractor’s authorized representative shall be present during the final inspection.

CAMPING/STAGING
Camping will be allowed during project implementation at the project site or other location if approved by the Contract Administrator or Bureau of Land Management (BLM) Representative. Camping is prohibited within 100 yards of any isolated water source springs, seeps, water troughs, windmills, small reservoirs, etc. All fire regulations and permits shall be followed. All garbage and refuse shall be removed from the camp site by the contractor within seven days of camp abandonment. Toilet facility requirements shall follow all Federal and State regulations. Final payment will be reserved subject to inspection of these sites by the Contract Administrator or BLM Representative and approval of site cleanup.

CONTRACTOR FURNISHED ITEMS
The Contractor will provide all tools, equipment, and labor necessary to transport and complete the work as specified in the contract. The Contractor shall be responsible for picking up the material (at Smith Creek Ranch or Mason Valley WMA - TBD) and safely transporting and off-loading them at the project site in good working condition. The Contractor is liable for any loss or damage of materials during transport, and until the fences are constructed.

STATE OR FEDERAL AGENCY FURNISHED ITEMS
NDOW will provide all fence material.

BLM will provide the cattle guards, bases, and wings necessary to complete the installation of two cattle guards. The installation shall follow the attached BLM specifications.

**FENCE MATERIAL SPECIFICATIONS**
Fence line posts will be MSM 76” tubular post (see “Attachment A” below). Fence corner posts will be MSM 76” tubular post (see “Attachment B” below).

The fence will be two rail, 24 foot galvanized 1 5/8 inch diameter DQ 40 with .111 inch wall thickness (Mill Spec.). Couplers used to join sections of pipe will be 1 7/8” by 8” full slip couplings. Couplers will be fastened to rails with tech screws. Flexible elbows can be used through dips and where extreme topographic relief occurs (e.g. through wash, streambed) to keep pipe running continuous.

Standard smooth wire, barbed wire, and T-post will be used.

**CONSTRUCTION SPECIFICATIONS**
**Pipe Rail Fence:**
Construction of steel pipe rail continuous exclosure fence.

**Rails:**
The top of the top rail should be installed 42 inches (±2 inches; no more than 44 inches and no less than 40 inches above ground. The top of the bottom rail must be installed 22 inches (±2 inches; no more than 24 inches and no less than 20 inches above ground).

Rails must be secured to each other and to post (i.e. couplers should join rails at posts and should not be installed free floating between posts).

**Posts:** Post should be spaced 12 feet apart (±1 ft) apart unless specified otherwise. Abel and Stoker Springs fences should be 8 feet spacing on posts.

Posts shall be set 34 inches into the ground so that the top of the top rail will be 42 inches (±2 inches) from the ground and the top of the bottom rail 22 inches (±2 inches) from the ground. Pound, auger, drill, and/or concrete steel line posts into the ground a minimum of 32 inches deep.

If the post cannot be pounded to the specified 34 inches then a hole must be dug and the post concreted with a minimum of one 60 pound bag of concrete and firmly seated in the ground at a depth no less than 18 inches. When the ground is too moist to allow for proper curing of concrete, a concrete forming tube will be used and filled with two 60 pound bags of concrete.

If the post must be cut due to a natural obstruction (rock), the post must be seated no less than 18 inches below the grounds surface and concreted flush to the grounds surface. If the necessary depth of 18 inches cannot be achieved, the contractor should use a rotary hammer to drill a hole 18 inches deep and approximately 2 inches in diameter to fit a piece of pipe that will support the post. This supporting pipe should have an outside diameter of no less than 1 5/8 inches and should be epoxied with masonry epoxy into the obstruction. The pipe supporting the post should rise 18 inches above the grounds surface and tech screwed to the respective post a minimum of 4 times using one inch tech screws.

**Corner, end and gate posts:** All corners/angles, end posts, and gate posts will be concreted and firmly seated in the ground at a minimum of 34 inches. If the required depth of 34 inches cannot be achieved the post should be cut at a depth no less than 18 inches, so that the top of the bottom rail will achieve the correct 22 inch distance from the ground and concreted flush to the grounds surface. Any open pipe ends will be capped permanently to prevent access to birds
or other wildlife.

When angles are encountered that prevent rail from easily passing through line posts and terminating at corners two fence rail ends should be bolted together to produce an articulating joint/flexible elbow. These caps will be fastened to the two respective pipe rail ends with tech screws. All non-corner angles shall have 2 post (one on each fence side) within 4 feet of ends/flexible elbow joint.

**Water Crossings and depressions**

When encountering water crossings and depressions the post and rail should adhere to the standards described above (i.e. posts set 34” in ground, top rail = 42 inches, bottom rail = 22 inches), with continuous rail paralleling the ground so not to allow livestock under or over fence. Use articulating joint/flexible elbow when necessary. When water crossings and depressions are encountered that are either inundated with standing water or are expected to be inundated with standing water do not install posts in the water. If necessary use additional posts on either side of the standing water to maintain spacing between posts of less than 12 ft.

**Barbed/Smooth Wire Fence:**

Barbed/Smooth wire fences are meant to be temporary, but may receive much pressure from livestock and wild horses.

**Wire:** Stretch and attach to steel posts with standard wire clips. Wire is properly stretched when it is springy to the touch. Terminate wire at each end stress panel. Wrap wire around the post two (2) times and tie off by wrapping around the incoming wire a minimum of four (4) times.

Bottom wire should be smooth and spaced 18 inches above ground level. The second, third and fourth wires should be barbed and spaced 25, 33 and 40 inches above ground level respectively.

**T-Posts:** Drive into the ground 16-20 inches. The anchor plate shall be below the ground surface. Posts shall be driven plumb. When rock formations prevent driving remove anchor plate and excavate or drill holes a minimum of 18 inches deep and slightly smaller than the diameter of the post, then drive post solidly into the rock formation

Posts will be set at 16 ½ foot centers

**End Panel Assemblies:** Construct end panels at the end of fence runs unless teeing into an existing H-brace or other supporting structure.

A brace wire shall be double-looped and twisted tight with a stick. For easy panels, each wrap shall be looped once around the post. Leave one (1) end of the stick long enough to fasten behind the horizontal brace to prevent wire from unwinding.

Brace post should be pounded as opposed to cemented as these cross fences will be temporary.

**Cattle guards**

Cattle guards should adhere to attached BLM cattle guard specifications.

**Fence Paint (optional)**

The contractor will paint the fence using a color that blends in with the natural surroundings. Sage-green is recommended and shall be used unless agreed upon between the Contractor and Contract Administrator. If the contractor will not paint the fence, this should be noted in the bid.

**Environmental Considerations**
Blading or Scraping: No blading or scraping of the ground along the fence line or on any Bureau of Land Management, US Forest Service, or State administered land is permitted. Access roads shall not be constructed along fence lines or to the job sites, but overland travel along the fence line is permitted.

Rocky Conditions: Rocky conditions exist along portions of the fence line, and it is recommended that interested vendors inspect the site before offering a quote.

Cross-Country Travel: No cross-country travel with motorized vehicles shall take place when ground is muddy causing ruts to form. The vendor shall repair all ruts and scarred ground created by construction, repair, or removal as directed by the Contract Administrator.

Specific areas may be flagged that designate sensitive areas due to archaeological sites, wildlife nesting areas, sensitive plant species, spring areas, etc. The Government may pose restrictions to other operations in these areas.

**STANDARD OPERATING PROCEDURES**

Weed Control - Contractor will insure all vehicles moved onto public or private land are free of soil, seeds, and vegetative matter or other debris that could contain or hold seeds. Contractor will employ whatever cleaning methods are necessary to insure compliance and will notify the NDOW prior to moving vehicles. Notification will include identifying the location of the vehicle’s most recent operations.

Cultural Resource Protection - Locations of known historic or prehistoric sites, buildings, objects, and properties related to American history, architecture, archaeology, and culture, such as settler or Indian artifacts need to be avoided by the Contractor. Because fragile and irreplaceable culture resources may be present in the area, project activities and any other action which causes disturbance of the earth's surface shall be limited to those areas approved by the BLM and by the state. Deviations from routes flagged or shown on the drawings are not allowable without prior approval of the project manager. The vendor shall insure that he, his employees, or his representatives do not collect archaeological artifacts. Should the condition of the cultural resources in the area be altered during construction due to unauthorized activity by the vendor or his employees, the vendor shall be responsible for all costs of mitigating the cultural resources involved. If destruction of the archaeological sites is found to be occurring during the construction phase, work on the project shall be terminated until a data recovery plan is prepared and completed in accordance with the National Historic Preservation Act and the State Historic Preservation Office.

Fire Prevention/Suppression - Vegetation occurring in the Great Basin can be highly flammable. Under dry and windy weather conditions the potential for a fire start is high. The risk of wildfire is year round. Be extra careful when working on or around the dry grasses. Check under vehicles when parking off road.

The Contractor will, independently and in cooperation with the Government, take all reasonable action to prevent and suppress fires on the project. Independent initial action will be prompt and will include the use of all personnel and equipment available in the project area.

Emergency Reporting Requirements:

1. **911** (initial call for all emergencies)
2. Sierra Front Dispatch Center: **775-883-5995** (wildland fire emergency line)

*Information needed in reporting a wildland fire would include: Location: Geographical reference and if possible Latitude/longitude coordinates. Description on what the fire is doing size, spread, color of smoke, etc.*

NDOW may require emergency measures, including the necessary shutting down of equipment or portions of operations during periods of high fire danger.
The holder of this permit may be held liable for any and all costs should a wildland fire occur caused by the activities associated with the construction, maintenance, or operation of this project. Fire trespass action might be initiated and wildfire suppression costs may be collected from the holder of this permit.

**BID SUBMISSION**

Please submit itemized bids, using the following table/format:

<table>
<thead>
<tr>
<th>Site</th>
<th>Feet</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haypress Meadows Pipe rail fences</td>
<td>10,354</td>
<td></td>
</tr>
<tr>
<td>Haypress Cattle Guards</td>
<td>Count 2</td>
<td></td>
</tr>
<tr>
<td>Haypress Meadows Barbed wire fences</td>
<td>936</td>
<td></td>
</tr>
<tr>
<td>Dalton Canyon Pipe Rail Fences</td>
<td>2,137</td>
<td></td>
</tr>
<tr>
<td>Dalton Canyon Barbed wire fences</td>
<td>944</td>
<td></td>
</tr>
<tr>
<td>Abel and Stoker Springs Pipe Rail Fence</td>
<td>1021</td>
<td></td>
</tr>
<tr>
<td>Transportation of material from Smith Creek Ranch</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Transportation of material from Mason Valley WMA</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Please submit bids by **July 20, 2018** to:

Mark Freese  
1100 Valley Road,  
Reno, NV 89512  
markfreese@ndow.org  
775 688-1145

If enough interest is expressed in a pre-bid field tour, then we will coordinate a workable date with interested vendors.

Please note that bids may be awarded some of the projects but may not include all projects as funding may be limited.

**PAYMENT AND INVOICING**

Payment will be made for work completed to identified standards and timeframes upon submittal of an invoice to the Nevada Department of Wildlife Contract Administrator. Fencing invoicing should identify the number of linear feet of fence constructed/installled and multiplied by the approved per foot contract price as specified in the bid (i.e. using table above).

The Contract Administrator will make periodic inspections as a basis and make recommendations for adjustments in work quality. The Contractor or representative is encouraged to observe inspections at the time they are being made. Work performed according to the specifications will be considered acceptable for payment purposes. Payment may
be made for each completed site on a monthly basis, but no more often and only for completed projects that meet the specifications and to our satisfaction.
Figure 1. Project Sites in Desatoya Mountains
Figure 2. Haypress Fences and Cattle Guards. Overview (top left), Upper Fence (top right), Middle Fence (bottom left), and Lower Fence (bottom right)
Figure 3. Dalton Canyon Fences. Overview (top left), Upper Fence (top right), Bottom Fence (bottom left), and Barbed/smooth Fence (bottom right)
Figure 4. Stoker (top left) and Abel (bottom right) Springs
Figure 5. Example of pipe rail fence to be installed.
EXHIBIT "A"

MSM Sheet Metal & Steel Fabrication Inc.  
Patent Pending

76 Inch Fence Post Rev B 4/7/2011
Material = 12 ga (.104) galvanize
Fence Post weight = 14.73 Lbs
76 Inch Fence Corner Post Rev B 4/7/2011
Material = 12 ga (.104) galvanize
Corner post weight = 31.1 Lbs Assembled

EXHIBIT "B"
Grant Opportunity-Haypress Meadow Fence and Cattleguards

Proposals are due no later than close of business September 25, 2018. Grant proposals should be submitted to: leeturner@ndow.org. Questions should be addressed to Lee Turner leeturner@ndow.org. This work will support habitat restoration projects implemented by the Bureau of Land Management (BLM), Nevada Department of Wildlife (NDOW) and the Nevada Partners for Conservation and Development (NPCD).

Grant Application Instructions

Please find below a scope of work for the implementation of the Haypress Meadow fence and cattleguards. Your proposal at a minimum must include:

- Proposal text to address how the scope of work will be performed
- Identification of the project manager and any supporting staff along with a brief description of their qualifications
- A proposed cost estimate with detail to include: anticipated number of labor hours and fully loaded costs by individual, travel costs, material costs and other anticipated expenses
- Submission of the draft report in digital form is acceptable
- Provide detail of past interactions with NDOW and BLM projects and personnel

Grant Eligibility (must meet all the following criteria)

- Non-profit organization with offices located in Nevada
- Specific experience supporting spring fencing and/or guzzler work and cattleguard installation.
- Specific experience with various equipment including global positioning systems (GPS), geographic information systems (GIS), topographic maps, 4-wheel drive vehicles, standard computer programs such as Microsoft Office

Scope of Work

See attached documents for details on scope of work and all specifications.
NOTES:
1. SEE SPECIFICATIONS FOR WIDTH (W).
2. CATTLE GUARD GRID DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. ON EARTH-SURFACED ROADS, SET TOP OF CATTLE GUARD FOUNDATION 8" (203 mm) ABOVE SUBGRADE UNLESS PLANS OR STAKES INDICATE ANOTHER ELEVATION. TAPER FILL BACK FROM CATTLE GUARD APPROX. 50' (15.24 m) IN BOTH DIRECTIONS.
4. #4 REINFORCEMENT MAY BE SPACED WITH 24" (610 mm) LAP UNLESS PROHIBITED.
5. THE METRIC CONVERSIONS ARE PROVIDED IN PARENTHESIS FOLLOWING THE ENGLISH UNITS.

ESTIMATED QUANTITIES FOR REINFORCED CONCRETE FOUNDATION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QUANTITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT WIDTHS</td>
<td></td>
</tr>
<tr>
<td>14' (4.27 m)</td>
<td>16' (4.88 m)</td>
</tr>
<tr>
<td>CONCRETE</td>
<td>3.3 C.Y. (2.52 cu.m.)</td>
</tr>
<tr>
<td>#4 REINFORCEMENT STEEL</td>
<td>324 L.F. (98.76 m)</td>
</tr>
<tr>
<td>L2&quot;x2&quot;x1/4&quot;</td>
<td>28 L.F. (8.53 m)</td>
</tr>
</tbody>
</table>

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CATTLE GUARD FOUNDATION
(CAST-IN-PLACE CONCRETE)