Informal Bid Request (IBR) 18-502

D-5 CFRP Girder Repair E000214

IDAHO TRANSPORTATION DEPARTMENT

Date of Issuance: 4/16/2018
### ADMINISTRATIVE INFORMATION

<table>
<thead>
<tr>
<th>IBR Title:</th>
<th>D-5 CFRP Girder Repair</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBR Project Description:</td>
<td>Installation of externally bonded Carbon Fiber Reinforced Polymer</td>
</tr>
</tbody>
</table>
| IBR Lead: | S. Todd Sorensen, Project Coordinator  
Idaho Transportation Department  
3311 W. State Street, Boise, Idaho 83703  
todd.sorensen@itd.idaho.gov  
208-334-8093 |
| Submit sealed bid: | Address for Courier  
3311 W. State Street  
Boise, Idaho 83703  
Address for US Mail (if different)  
P.O. Box 7129  
Boise, Idaho 83707-1129 |
| Deadline To Receive Questions: | 5:00 p.m. Mountain Time on April 20, 2018 |
| IBR Closing Date: | 2:00 p.m. Mountain Time on April 27, 2018 |
| IBR Opening Date: | 2:05 p.m. Mountain Time on April 27, 2018 |
| Initial Term of Contract and Renewals (service completion): | The service performed under the contract will begin upon ITD’s written notice to proceed and must be complete within 30 calendar days. |
1 GENERAL INFORMATION

1.1 Purpose

The Idaho Transportation Department (ITD) is requesting bids from qualified bidders to furnish material, labor, equipment, testing and incidentals to complete the installation of externally bonded Carbon Fiber Reinforced Polymer (CFRP) reinforcing system on the Girder located at SH-36 M.P. 100.02 Deep Creek Road I.C. over I-15 M.P. 16.65 in accordance with the specifications contained herein.

Public Works Licensing is Required

1.2 General Information, Solicitation Instructions and Standard Terms and Conditions

This solicitation is issued by the Idaho Transportation Department via:

http://itd.idaho.gov/business/ (click on the Solicitations – Non-Highway Projects tab). The Idaho Transportation Department is the only contact for this solicitation. All correspondence regarding this IBR must be in writing. In the event that it becomes necessary to revise any part of this IBR, addendums will be posted at the website provide above. It is the responsibility of the bidder to monitor this website for any updates or addendums. Any oral interpretations or clarifications of this IBR will not be relied upon. All changes to this IBR must be in writing and posted to the website to be valid. Alternate bids are not allowed.

The current version of the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions are incorporated by reference into this solicitation, and any resulting contract, as if set forth in their entirety. This document can be downloaded at or copies obtained by contacting the solicitation’s lead (see Section 1.3, Inquiries). Failure by any submitting bidder to obtain a copy of these documents will in no way constitute or be deemed a waiver by ITD of any term, condition, or requirement contained in the referenced documents; and no liability will be assumed by ITD for a submitting bidder's failure to consider the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions in preparing its response to the solicitation.

1.3 Inquiries

Questions or other correspondence must be submitted in writing to the ITD contact listed below.

QUESTIONS MUST BE RECEIVED BY 5:00 PM Mountain Time (MT) ON THE DATE LISTED IN THE ADMINISTRATIVE INFORMATION PAGE. Timely received written questions will be answered via an addendum which will be posted to http://itd.idaho.gov/business/ (click on the Solicitations – Non-Highway Projects tab).

IBRLead: S. Todd Sorensen
Phone: 208-334-8093
E-mail: todd.sorensen@itd.idaho.gov

Any questions regarding the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions must also be submitted in writing, by the deadline identified in this subsection. ITD will not consider proposed modifications to these requirements after the date and time set for receiving questions. Questions regarding these requirements must contain the following:

1. The rationale for the specific requirement being unacceptable to the party submitting the question (define the deficiency);
2. Recommended verbiage for ITD’s consideration that is consistent in content, context, and form with ITD’s requirement that is being questioned;

3. Explanation of how ITD’s acceptance of the recommended verbiage is fair and equitable to both ITD and to the party submitting the question.

Bids which condition the bid based upon ITD accepting other terms and conditions not found in the IBR, or which take exception to ITD’s terms and conditions, will be found non-responsive, and no further consideration of the bid will be given.

1.4 Submission Requirements

1.4.1 Required Bid Submission Items

Your bid submission must consist of the following:

1.4.1.1 Bid Schedule (Attachment A)
1.4.1.2 Affidavit: Drug Free Workplace Program (Attachment B)
1.4.1.3 Subcontractor Licensing – if applicable (Attachment C)
1.4.1.4 Signature Page (Attachment D)

1.4.2 Bid Submission Methods

Bids must be submitted manually (via U.S. Mail, courier/hand-delivery) in a sealed envelope/package. Do not fax or e-mail your bid. Your bid must be received at the location and by the date and time specified on the IBR Administrative Information Page. The official time, for bid closing purposes, is ITD’s time clock. Alternate bids will not be allowed.

1.4.2.1 Submission Method Requirements

Seal all required bid submission items in a single envelope or package (be certain to include an original hand-written signature in ink OR an electronic digital I.D. on the Signature Page) and label the outside of the package as follows:

Attn: Todd Sorensen, Project Coordinator, Idaho Transportation Department
Bidder Name: (Company Name)
IBR Number: 18-502
IBR Title: D5 CFRP Girder Repair Project E000214
IBR Closing Date: April 27, 2018 @ 2 PM MT

Bidders must provide one (1) original copy of their bid.

1.5 Compliance with

1.5.1 2017 Standard Specifications for Highway Construction

The 2017 Standard Specifications for Highway Construction and the most current Quality Assurance Manual are incorporated by reference where applicable to this solicitation.

The 2017 Standard Specifications for Highway Construction is available for $30.00 plus tax. Contact ITD at 334-8493 to purchase or to download both the 2017 Standard Specifications for Highway Construction and the Quality Assurance Manual.
1.5.2 ITD Policy Compliance

The following ITD Policy Compliance applies to this contract when the Contractor is performing work at an ITD facility or when using ITD equipment or other property. These policies will remain in force for the duration of the contract:

5055 Harassment in the Workplace policy
5523 Alcohol and Drug-free Workplace policy
5510 Computer, E-Mail, and Internet Usage policy
5033 Workplace Violence Policy

These policies are and incorporated in this agreement. It is the Contractor's responsibility to read, understand and comply with these policies; one hundred percent (100%) compliance is mandatory. Furthermore, Contractor is responsible for ensuring that all their employees and subcontractors adhere to these policies. ITD reserves the right to remove from its premises, at any time, any Contractor or his/her employee or subcontractor that fails to follow these policies. ITD also reserves the right to remove its property, at any time, from any Contractor or his/her employee or subcontractor that fails to follow these policies.

All Contractor's employees and subcontractors are required to wear identification badges at all times while on the ITD's premises. The Contractor and its employees or subcontractors are not employees of ITD, but ITD retains the right to control its own work place and the use of its property.

If a formal and written complaint is registered with the Contractor in respect to unsatisfactory work performance, the Contractor shall have 72 hours in which to respond in person to the complaint, to remedy the problem(s). Failure to respond in the prescribed time to the complaint or to remedy the problem may result in termination of the contract as provided in the Termination section.

If the district engineer is not satisfied with the results and remediation of the complaint, periodic and joint inspections with the Contractor may be required to discuss and point out contractors violations. Failure of the Contractor to attend these inspections may result in termination of the contract.

1.6 Award

Award will be made, all or none, to the responsive, responsible bidder with the lowest Total Cost, as provided on Attachment A, Bid Schedule.

1.7 Point(s) of Contact/Contract Administration

The contract Administrator(s) and Manager(s) contact information for the resulting contract(s) will be provided upon award of bid.

2 SCOPE OF WORK

2.1 Scope

S501-25A CFRP GIRDER REPAIR

**Description.** Furnish material, labor, equipment, testing and incidentals necessary to complete the installation of externally bonded Carbon Fiber Reinforced Polymer (CFRP) reinforcing system as shown on the plans, as directed by the Engineer and in accordance with the manufacturer's recommendations.

**Materials.** Use the following material for the CFRP Repair:
**CFRP System.** Provide a proprietary CFRP composite system consisting of all associated fiber reinforcement and polymer adhesives/resins. CFRP composites consisting of fiber reinforcement and polymers by more than one manufacturer is not allowed.

The Department has verified the following products meet the requirements for CFRP Repair:

- Mbrace CF130 by Master Builders Technologies
- Replark Type 30 by Mitsubishi Chemical Corporation
- Sika Wrap Hex 103C by Sika Corporation
- Tyfo SCH-41 S by Fyfe Company
- HJ3 CarbonSeal by HJ3

This list is for information only and not intended to limit competition. Other CFRP systems may be used if engineering analysis shows the system meets or exceeds the performance of the preapproved systems. If an alternative system is requested, calculations and working drawings stamped by a registered professional engineer in the state of Idaho must be submitted to the Engineer for approval. The design criteria is available from the Engineer.

**Anchor System.** Provide structural steel that conforms to AASHTO M270, Grade 36 and that is galvanized in accordance with ASTM A-123. Provide threaded rod that conforms to ASTM F-1554 Grade 55 and that is galvanized in accordance with ASTM A-153.

**Protective Coatings.** Provide a top coating for the CFRP system that is approved by the CFRP system supplier. The color shall match the concrete color as close as possible.

Shipping, handling and storage of materials shall be in accordance with the manufacturer's recommendations.

**Construction Requirements**

**A. General.** Submit manufacturer's installation instructions to the Engineer prior to construction. Provide the name of the manufacturer of the CFRP System including name and phone number of the Manufacturer's Technical Representative.

Provide a certification from the manufacturer that the Contractor performing this work is an "Approved Contractor" for applying the specified product.

Take measures to protect traffic adjacent to the work area.

**B. Trial Placement.** Demonstrate competency in installing the CFRP System. Conduct a trial run offsite on an overhead precast element of the Contractors choosing and as approved by the Engineer.

Wrap two ply's of CFRP around the bottom of the element using the shear reinforcement details shown in the plans. Place a minimum of 10 of length along the trial element.

Notify the Engineer of the date and location of the Trial Placement a minimum of I week prior.

Follow Sections B-E, Construction Requirements of these Specifications including having a technical representative on site during all phases of the Trial Placement. Select a minimum of 3
locations to conduct a direct tension pull off test, as approved by the Engineer. Submit results of the direct tension pull-off tests to the Engineer.

C. Technical Representative. Ensure the CFRP system manufacturer's representative is present during the substrate preparation, application and testing of the CFRP system. Obtain approval from the Manufacturer's representative that all stages of the CFRP system has been constructed correctly.

D. Surface Preparation. Repair concrete cracks and surface in accordance with S501-30A Concrete Crack Repair Preparation, S501-50A Concrete Crack Epoxy Injection, S501-51A Patch and Repair Concrete Surface. Prepare the surface prior to installing the CFRP system. Prepare the surface per the manufacturer's recommendations. Prepare the surface by grinding or sandblasting to produce smooth, even surfaces of uniform texture and appearance, free of bulges, depressions and other imperfections. Prepare the surface to be free of fins, sharp edges and protrusions that will cause voids or depressions behind or within the installed laminate or that in the opinion of the Engineer, may damage the fibers. Remove all laitance, dust, dirt, oil, curing compound, and other matter that could interfere with the bond between the CFRP system and concrete. Grind corners to a minimum of 1 inch radius to prevent stress concentrations in the CFRP system. After surface grinding or sandblasting, fill concavities, spalls, gaps and voids greater than 1/8 of an inch with a manufacturer approved mortar or paste.

Remove dust from the surface using compressed air after all concrete preparation is complete.

E. Installation. Install the CFRP system when the concrete surface and ambient temperatures are between 40°F and 90°F. Auxiliary heat may be applied to raise surface and ambient temperatures to a suitable range. If necessary, provide heating units that supply a clean source and does not contaminate the concrete or CFRP surfaces with pollutant. The temperature shall be maintained between 40°F and 90°F for the full cure of the CFRP system as required by the manufacturer.

Do not install the CFRP system when moisture is present on the substrate, or when rainfall, or condensation is anticipated. If water leakage exists through cracks, the water's ability to flow must be stopped prior to CFRP installation.

Mix and apply epoxy resin in accordance with manufacturer's specifications. Mix the components of the resin at the correct proportion and mix thoroughly by automatic equipment to within 5% of the specified mix ratio. Place the reinforcing fibers in saturation resin to achieve full saturation of the fibers as prescribed by the manufacturer.

Usage of polymer adhesives specific to CFRP rehabilitation requires the use of care in their handling, application and disposal. Handle primer and resin in accordance with manufacturer's specifications. Do not dilute primer and resin with any solvent. After the resin has been mixed with hardener, the mixed resin batch must be used within its batch-life. The mixed batch resin must not be used after expiration of its batch-life as increased resin viscosity will prevent proper impregnation of the carbon fiber sheet.

Install the carbon fiber sheet per the manufacturer’s recommendations. Install the fiber sheet within 20 minutes of applying the saturating resin. Install the second coat of resin a minimum of 30 minutes after the first saturation, but shall be completed on the same day. Always finish with a
resin overcoat application.

Apply successive layer of CFRP laminate materials before complete cure of the previous layer of epoxy to achieve complete bond between layers.

Install lap splices of carbon fiber sheet in accordance with the plans and manufacturer's recommendations. If lap splicing in the direction of the fibers is permitted, lap splice a minimum of 8 inches. Obtain Engineer approval of all lap splice locations.

Apply a protective top coated after the CFRP system is fully cured, inspected and tested. Apply and cure the top coat per the paint manufacturer's recommendations.

F. Testing. Conduct a direct tension pull-off test per ASTM D454 I. Cure the CFRP a minimum of 24 hours before conducting any pull-off tests. Conduct the pull-off test on a flat and representative surface. Conduct the pull-off test in a location that is subject to low stress as indicated and directed by the Engineer. Conduct pull-off tests on representative samples of each day of installation and on each type of concrete substrate. Conduct a minimum of 3 direct tension pull-off tests, or as directed by the Engineer.

The failure mode of the pull-off test must be cohesive failure within the concrete. The tensile bond strength must be in excess of 200 psi, Repair the tested area in accordance with this specification.

G. Repairs. Repair the CFRP system in accordance with the Manufacturer's specifications and as approved by the Engineer. Repair minor defects less than six square inches, such as voids, air pockets or delamination by injecting with epoxy res in. Repair larger defects such as bubbles and delamination's by removing and reapplying the required layers of composite. Obtain Engineer approval for all large area repairs.

Method of Measurement. The Engineer will measure acceptably completed work by the lump sum.

Basis of Payment. The Depatment will pay for accepted quantities at the contract unit price as follows:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFRP Repair System</td>
<td>LS</td>
</tr>
</tbody>
</table>

5501-30A SP BRIDGE, CONCRETE CRACK REPAIR PREPARATION

Description: Prepare concrete surface cracks to inject with an epoxy resin adhesive. Repair cracks wider than 0.016 inch measured at the concrete surface including the finishing and cleaning of girders, pier caps, columns, and abutments shown on the plans and as Engineer directed.

Materials: Use the following material to prepare the cracks for injection:

Epoxy Resin for Surface Sealing: Provide a troweling-grade epoxy paste adhesive conforming to ASTM C881, Type I, Grade 3, Class B & C for the surface seal material capable of being applied to vertical and overhead surfaces and capable to confine the injection adhesive in the cracks during injection and curing. Ensure the surface seal material has adequate strength to hold injection fittings firmly in place and to resist injection pressures adequately to prevent leakage during injection. The Department will not allow
material that contains asbestos.

Ensure properties are as follows:

<table>
<thead>
<tr>
<th>Property</th>
<th>Requirement</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>&gt; 3000 psi at 14 days</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Flexural Strength (Modulus of Rupture)</td>
<td>&gt;3700 psi at 14 days</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Total Water Absorption</td>
<td>1.0% max at 7 days</td>
<td>ASTM D570 (2 hour boil)</td>
</tr>
<tr>
<td>Bond Strength - dry cure concrete to</td>
<td>&gt;1500 psi at 2 days</td>
<td>hardened concrete</td>
</tr>
<tr>
<td>Bond Strength - moist cure</td>
<td>&gt;1500 psi at 14 days</td>
<td></td>
</tr>
</tbody>
</table>

Construction Requirements

A. **General.** Apply epoxy adhesive in accordance with the manufacturer's recommendations.

Provide a certification from the manufacturer that the Contractor performing this work is an "Approved Contractor" for applying the specified product.

Provide injection ports along the crack at intervals less than the thickness of the member to be injected. Set entry ports in accordance with epoxy injection material manufacturer's recommendation. Apply surface seal material to the surface of the crack and adjacent areas of application between the injection ports as needed.

For drilled port holes, drill port holes using a hollow core drill bit with a vacuum retention system for debris removal or otherwise cleaned out prior to injecting. Drill holes to a minimum $W'$ depth and recess the pmts a minimum of $Y/2$" with a $Ys"$ reservoir at the bottom of the port.

For cracks open on both sides of the member, provide pmting devices on opposite sides at staggered elevations when practical. Apply an adequate seal and allow sufficient time for the surface seal material to gain adequate strength to prevent the escape of the epoxy resin adhesive for the injection grouting.

B. **Preparation.** All areas and cracks to be repaired shall be marked by the Engineer. Clean cracks to be injected and adjacent application surfaces to remove loose concrete, dirt, dust, grease, oil, efflorescence or other foreign matter detrimental to the epoxy injection bond and surface seal system. The Department will not allow acids and corrosives for cleaning.

Pressure point spacing depends on size and overall area thickness containing cracks.

C. **Finishing.** When the cracks are filled, allow the epoxy adhesive to cure for sufficient time to allow surface seal removal without draining or run back of the epoxy material from cracks.

Remove surface seal material and injection adhesive runs or spills from the surfaces. Finish surface area flush to the adjacent concrete showing no indentations or protrusions caused by the
entry ports placement and blend with the existing concrete surface.

**Method of Measurement:** The Engineer will measure acceptably completed work by the foot along the exposed surface of cracks.

**Basis of Payment:** The Department will pay for accepted quantities at the contract unit price as follows:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP Bridge, Concrete Crack Repair Preparation</td>
<td>FT</td>
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</table>

For cracks that penetrate a concrete member full depth, and are sealed on both sides of the member, and injection/inspection ports are installed on both sides of the member verifying full penetration of epoxy adhesive, will be measured and paid for both sides of the member.

**S501-50A SP BRIDGE, CONCRETE CRACK EPOXY INJECTION**

**Description:** Inject epoxy resin adhesive into prepared concrete cracks.

**Materials:** Use the following material for injection:

*Epoxy Resin for Injection:* Provide epoxy adhesive for crack injection as an epoxy resin, two-component, low viscosity adhesive containing no solvents or nonreactive dilutives conforming to ASTM C881, Type I & IV, Grade 1, Class B & C.

Ensure properties are as follows:

<table>
<thead>
<tr>
<th>Property</th>
<th>Requirement</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength 2:</td>
<td>7000 psi at 14 days</td>
<td>ASTMD638</td>
</tr>
<tr>
<td>Initial Viscosity</td>
<td>&gt;150 to &lt; 450 centipoise</td>
<td>ASTM D2393, Brookfield RVT</td>
</tr>
<tr>
<td>Flexural Strength (Modulus of Rupture)</td>
<td>&gt;1200psi at 14 days</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Total Water Absorption</td>
<td>1.5% max at 7 days</td>
<td>ASTM D570 (2 hour boil)</td>
</tr>
<tr>
<td>Bond Strength - dry cure concrete</td>
<td>&gt;1500 psi at 2 days</td>
<td>ASTM C882 hardened</td>
</tr>
<tr>
<td>Bond Strength - moist cure</td>
<td>&gt;1500 psi at 14 days</td>
<td>To hardened concrete</td>
</tr>
</tbody>
</table>

**A. General.** Apply epoxy adhesive in accordance with manufacturer's recommendations.

Provide a certification from the manufacturer that attests that the contractor performing this work is an "Approved Contractor" for applying the specified product.

**B. Equipment.** Inject two component, epoxy resin adhesive using a positive displacement pump equipped to control exact proportions with a nozzle mounted interlock. Provide electric or air powered pumps and an in-line mixing and metering system. Ensure automatic pressure-control
injection equipment is capable of discharging the mixed adhesive at any pre-set pressure up to 200 psi.

Ensure equipment is capable of maintaining the volume ratio for the injection adhesive prescribed by the adhesive manufacturer within a tolerance of ±5 percent by volume at any discharge pressure up to 200 psi.

Provide injection equipment with auto-stop sensors on both A and B component reservoirs that will stop the machine when only one component is being pumped to the mixing head.

Test equipment after every four hours of use and at the beginning of each shift for the proper injection ratio of components. Disconnect the injection mixing head equipment and pump the two adhesive components simultaneously through the ratio check device. Control backpressure in the ratio check device with two independent valve nozzles by opening or closing the valve. Provide a pressure gauge for sensing the backpressure behind each valve. Adjust the discharge pressure to 160 psi for both adhesive components. Simultaneously discharge both adhesive components into separate calibrated containers then compare the amounts discharged to determine the volume-discharged with the manufacturer’s recommended ratio for the appropriate material.

Keep complete and accurate pressure and ratio test records that are available to the Engineer.

**C. Execution.** Spacing of pressure points depends on size and overall thickness of area containing cracks. Start injection work at the lowest point and continue pumping until there is an appearance of epoxy adhesive at the next entry port adjacent to the entry port. When epoxy adhesive travel is indicated by appearance at the next adjacent port, discontinue injection on the entry port being pumped, and transfer epoxy injection to next adjacent port where epoxy adhesive has appeared. Completely fill cracks by continuous epoxy adhesive injection. If port-to-port epoxy adhesive travel is not evident, stop work immediately and notify the Engineer. The Engineer may elect to core the injected areas to confirm full crack penetration. Rectify areas not receiving full penetration, at no additional cost to the Department.

**Method of Measurement:** The Engineer will measure acceptably completed work by the gallons of epoxy used.

**Basis of Payment:** The Department will pay for accepted quantities at the contract unit price as follows:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP Bridge, Concrete Crack Epoxy Injection</td>
<td>GAL</td>
</tr>
</tbody>
</table>

**S501-51A SP BRIDGE, PATCH AND REPAIR OF CONCRETE SURFACE**

**Description:** Repair and patch damaged girders as shown on the plans, and as Engineer directed.

**Materials:** Use material for patching and repairing the concrete surfaces that is cementitious, fast setting, non-sag, non-metallic repair mortar containing a corrosion inhibitor and meets the following requirements:
1. Compressive Strength: 4500 psi minimum at 28 days, per ASTM C109
2. Bond Strength - Slant Shear: 1500 psi minimum at 28 days, per ASTM C882
3. Coefficient of Thermal Expansion: Between 5.3 x $10^{-6}$/°F and 6.4 x $10^{-6}$/°F per ASTM C53
4. Drying Shrinkage: Less or equal to 0.10% per ASTM C157
5. Suitable for vertical and overhead applications

Submit certified test results from an independent lab for products not on the Qualified Products List showing the proposed products meet the specified requirements. Obtain the Engineer's approval before use.

**Construction Requirements:** Take ownership and dispose of material removed. Meet the manufacturer's recommendations for application of mortars.

**A. Surface Preparation for Concrete Surfaces:** Mark out and score removal areas to a depth of 1/2-inch with a dry concrete saw. Exercise care to prevent damage to the existing reinforcement. Remove deteriorated, loose or unsound concrete to a minimum depth of 1/2-inch or whatever additional depth is required to reach sound concrete using jackhammers having a nominal rating of 15 lb or less and held at an angle of 45° or less from the concrete surface. Sandblast the cavity and the immediate surrounding concrete area to remove dirt, oil, grease, paint, corrosion deposits, dust, laitance, and bond-inhibiting materials. Prepare surface of cavity by mechanical scarification or sandblasting to provide a minimum surface profile of ± 1/8-inch.

**B. Existing Reinforcing Steel.** If any reinforcement is or becomes exposed during the removal of unsound concrete and the bond between concrete and reinforcement has been destroyed, remove at least 1/6-inch of concrete from around that reinforcement. Ensure patching material bonds to the entire periphery of the exposed rebar.

If any exposed reinforcement is damaged, broken, or has lost more than 25% of its section, remove at least 1/4-inch concrete from around that reinforcement to allow replacement of the damaged bar or splicing a new bar to the damaged bar. Properly embed or splice replacement or supplemental bars.

**C. Inspection:** Complete final surface preparation sufficiently in advance of the mortar placement to allow the Engineer to inspect repair areas before repair. Sound the repaired areas with a sounding bar or hammer after sufficient setting time and correct hollowness by removing and replacing the unbonded patch at no additional cost to the Department. The Engineer must be present during the sounding inspection.

**D. Finish:** Match the texture of the existing surface and ensure the finished surface is flush with the existing surface.

**Method of Measurement:** The Engineer will be measure acceptably completed work by the square foot of repaired concrete area.

**Basis of Payment:** The Department will pay for accepted quantities at the contract unit price as follows:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP Bridge, Patch and Repair of Concrete Surface</td>
<td>SF</td>
</tr>
</tbody>
</table>
The Department considers the cost of replacement or supplemental bars incidental and included in the contract unit price for patch and repair concrete surface contract pay item.

2.2 Worksite Cleanup

The Contractor must keep work areas free of waste materials. Upon completion of work, all waste, tools, supplies, and materials must be removed from ITD’s premises. Any tools and supplies left onsite after work completion will be considered property of ITD.

2.3 Work not noted, detailed, or specified

All work required for complete installation or assembly shall be included in the Contractor’s bid. Where minor portions of required work are not noted, detailed, or specified, such work shall be done in accordance with proven construction practice or accepted industry standards at no additional cost to the owner. The contractor shall be held responsible for verification of existing job conditions prior to bid. No additional cost shall be awarded to the successful contractor (or their subcontractors) after bids have been submitted and contracts awarded for failure to verify existing field conditions. Discrepancies or questions arising between actual field conditions and contract documents must be submitted in accordance with Section 1.3, Inquiries.

2.4 Location

SH-36 M.P.100.2 (Deep Creek Road I.C.) over I-15 M.P.16.65

2.5 Staging Location(s)

Staging location(s) will be determined by the ITD contract Manager prior to the start of each project.

2.6 Traffic Control

The Contractor will be responsible for traffic control. Contractor will provide a detailed traffic control plan to the ITD Contract Manager prior to starting. All plans must be approved before work begins.

2.7 Quantity

Quantities estimated in Attachment A Bid Schedule are for bidding purposes only. Actual quantities will vary due to the nature of the requirements.

2.8 Basis of Payment

The Contractor must submit invoices to the ITD billing location provided below, for the quantity delivered and accepted. ITD will render payment for a properly executed invoice according to Idaho Code 67-2302 from the date of the invoice, for pay items accepted by ITD.

Invoices must include the following information:

- Contract Number (and name of project/product, if appropriate)
- Identification of Billing Period.
- Total amount billed for the billing period.
- Detailed description of services/products provided and associated # of hours/$ amounts, as appropriate.
- Name of authorized individual/contact information for Contractor

Invoices must be submitted to:
2.9 Fully Burdened Cost

Provide your fully burdened Total Cost on Attachment A Bid Schedule.

2.10 Contract Compliance

If a formal and written complaint is registered with the Contractor in respect to unsatisfactory work performance, the Contractor will have seventy-two (72) hours in which to respond in person to the complaint, to remedy the problem(s). Failure to respond in the prescribed time to the complaint or to remedy the problem may result in termination of the contract as provided in the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions.

If ITD is not satisfied with the results and remediation of the complaint, periodic and joint inspections with the Contractor may be required to discuss and point out Contractors violations. Failure of the contractor to attend these inspections may result in termination of the contract.

3 GENERAL ARCHITECTURAL AND SPECIAL PROVISIONS

3.1 Subletting/Subcontracting

The Contractor cannot sublet, sell, transfer, assign, or otherwise dispose of the contract or any portion of the contract, or the right, title, or interest in the contract without the ITD’s written consent. If ITD consents to subletting a portion of the work, the Contractor must use its own organization to perform work amounting to at least thirty percent (30%) of the original contract amount.

If subcontracting is proposed, the bidder must complete Attachment B , Subcontractor Licensing, giving the name, address, and Public Works Contractors License Number for any and all companies who will, in the event the bidder secures the contract, complete the plumbing, electrical, or HVAC work under the contract in accordance with Section 67-2310, Idaho Code.

Companies must possess an appropriate Idaho Public Works Contractors License issued by the State of Idaho Public Works Contractors State License Board covering the contract work classification in which they are named.

Note: Section 67-2310, Idaho Code, also states "No general contractor shall name any subcontractor in his bid"

3.2 Guarantee

Excepting where certain portions of the work call for a longer period, all work shall be guaranteed for a minimum period of one year after the date of final acceptance; during the guarantee period, any repairs or replacements required because of defective workmanship or material shall be at the Contractor’s expense.

3.3 Temporary Utilities

The Contractor shall visit the site and determine what measure, if any, will need to be taken to provide for utilities for construction work, which may occur before the time that permanent services will be available.
The contractor shall make arrangements for and furnish at their own expense, all water, sanitary facilities and other utilities necessary for construction purposes. All utilities shall be at the Contractor’s expense until final acceptance.

3.4 Codes

The Contractor, including subcontractors, shall submit their bid in accordance with plans and specifications. If plans and specifications do not comply with any codes having jurisdiction in that particular place or construction, the Contractor shall notify ITD prior to bidding in writing and faxed to the number stated in the bid document. If prior notification is not given, it shall be assumed that the Contractor’s base bid includes, to the best of their knowledge and experience, all work necessary to comply with such codes.

3.5 Dimensions and Measurements

The Contractor shall field verify all dimensions pertaining to the work and shall be responsible for the determination of all quantities of materials required for the work and for the accuracy of all dimensions of materials and items fabricated for this project. The Contractor shall not rely on the scale drawings in the project drawings for the determination of exact quantities or dimensions.

3.6 Coordination and Control

This work shall proceed in an effective sequence so as to eliminate unnecessary work stoppages at the building.

3.7 Use – Tax

It is not anticipated that the Contractor will utilize State-owned material on this project.

In the event that the Contractor does utilize State-owned material, the exercise of control over State-owned material by a Contractor who is improving real property (roadways, etc.) will incur the imposition of a use tax. Bidders are advised to consult Section 63-3609, Idaho Code, and IDAPA 35, Title 01, Chapter 02, Sales Tax Administrative Rule 012, “Contractors Improving Real Property”, and Rule 013, “Road and Paving Contractors”, or contact the Idaho State Tax Commission for guidance. (Telephone No. (208) 334-7617)

3.8 Superintendent

The Contractor shall employ a competent Foreman and necessary assistants who shall be in attendance at the Project site during the progress of work. The Foreman shall be satisfactory to the Architect, and shall not be changed except with the consent of the Architect unless the Foreman proves to be unsatisfactory to the Contractor and ceases to be in their employ. Under this circumstance, the new Foreman shall also be satisfactory to the Architect. The Foreman shall represent the Contractor and all communications given to the Foreman shall be as binding as if given to the Contractor. Important communications will be confirmed in writing.

3.9 Information Given Prior to Award

Oral explanations, instructions and interpretations given to bidders prior to award of contract will not be binding. It is the Department's intent to provide all bidders equal opportunity to access and acquire all available pertinent information necessary to formulate a responsive bid. Any information, specifications, plans, data or interpretations which the Department discovers is lacking and may be important to all bidders, will be furnished to all bidders in the form of an addendum, the receipt of which shall be acknowledged.
3.10 Performance
Submission of a bid by any Contractor shall be accepted as prima facie evidence that they have satisfied themselves as to the nature and location of the work and all other matters, which can in any way affect the work or cost thereof under the contract. Any failure of the Contractor to acquaint them with all available information, including a physical survey of the site of the proposed work, shall not relieve them from successfully performing all the work required.

3.11 Bidding Requirements and Conditions
Sealed Bids will be received at the time and place stated on the Cover Page. Timely receipt of Bids will be determined by the date and time the Bid is received at the address specified. Hand delivery is encouraged to ensure timely receipt. No Bid will be accepted after the time indicated. All material that is submitted in accordance with this solicitation becomes the property of the State of Idaho and will not be returned.

The bidder shall submit their bid upon the forms furnished by the Department. All figures shall be written in blue ink or typed. Penciled entries will not be accepted. If entries are in pencil, the bid shall be considered irregular and the bid will be rejected.

The bid shall be signed with blue ink by the individual or agency authorized to sign and submit this bid for the bidder. The bid signature page must include the bidder name and address and the state and address in which the business is domiciled.

3.12 Irregular Bids
Bids will be considered non-responsive and shall be rejected for the following reasons:

1. If the Bid Form(s) are on a form other than that furnished by the State or if the form is altered or any part thereof is detached.
2. If there are unauthorized additions, conditional or alternate bids, omission of addenda, or irregularities of any kind, which tend to make the bid incomplete, indefinite, or ambiguous as to its meaning.
3. If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
4. If the Bid Schedule does not contain a unit price for each pay item listed except in the case of alternate pay items.
5. If the Bid Documents are not sealed, when received by the Department.
6. If the Signature Page is not signed in blue ink and returned with your bid.
7. If Addendums are not signed, in blue ink, and returned with the Bid Documents.
8. If the required Public Works License Number(s) is not inserted on the ‘Signature Page’.

3.13 Disqualification of Bidders
Any of the following reasons may be considered as being sufficient for the disqualification of a bidder and the rejection of their bid or bids:

1. More than one bid, for the same work from an individual, partnership or corporation under the same name or a different name.
2. Evidence of collusion among bidders. Participants in such collusion will receive no recognition as bidders for any future work of the State until any such participant shall have been reinstated as a qualified bidder.

3. Bidder, or its principals or affiliates, is disbarred, suspended, or ineligible from federal contracting; see Idaho Code § 67-5730 (2) (f).

3.14 Surety Bond Requirements (Performance and Payment Bonds)

The lowest responsive, responsible bidder shall furnish a performance bond and a payment bond each in the amount of the contract.

Performance and Payment Bonds shall be submitted on the most current version of The American Institute of Architects (AIA) Document 312, signed by the bidder and their surety company. Power of Attorney for the person who executes the bond on behalf of the surety as Attorney-In-Fact must accompany the bid bond.

Guarantees submitted via any other obligation WILL NOT be accepted.

Please note: Bonding Surety must be registered and licensed with the Idaho Department of Insurance. Performance and Payment bonds will not be accepted if Surety is not registered and licensed in Idaho, and contract will not be executed by the Department. If contractor fails to file acceptable bonds within 5 calendar days after the contract has been received by the bidder, this failure may be deemed just cause for the cancellation of the award of contract and the forfeiture of the proposal guaranty which shall become the property of the state, not as a penalty, but in liquidation of damages sustained.

3.15 Consideration of Bid / Record of Public Bid Opening (ROPBO)

After the bids are opened and read, they will be compared on the basis of the summation of the products of the approximate quantities shown in the bid schedule by the unit bid prices. The results of such comparisons will be available at http://itd.idaho.gov/business/ (click on the Solicitations – Non-Highway Projects tab). The right is reserved to reject any or all bids, to waive technicalities, to advertise for new bids, or to proceed to do the work otherwise, if, in the judgment of the Department, it is in the best interest of the State.

3.16 Execution / Award of the Contract

The award of contract, if it is awarded, will be made within 5 calendar days after the Intent to Award Notice letter has been mailed to the lowest responsive bidder whose bid complies with all requirements prescribed. However, the award may be deferred beyond 5 calendar days by mutual written agreement between the Department and the lowest responsive bidder.

The contract shall be signed by the lowest responsive responsible bidder and returned within 5 calendar days after the bidder has received the contract. If the contract is not executed by the State within 5 calendar days following receipt from the bidder of the signed contracts, the bidder shall have the right to withdraw their bid without penalty. No contract shall be considered as effective until it has been fully executed by all of the parties thereto.

3.17 Failure to Execute Contract

Failure to execute the contract, file acceptable bonds and submit acceptable evidence, if required by contract, of good faith efforts to obtain participation by disadvantaged businesses within 5 calendar days after the contract has been received by the bidder shall be just cause for the cancellation of the award of contract and the forfeiture of the proposal guaranty which shall become the property of the state, not as a penalty, but in
liquidation of damages sustained. Award may then be made to the next lowest responsible bidder or the work may be readvertised and constructed under contract or otherwise, as the state may decide.

3.18 Authority to Proceed

Authority to proceed will be given after the required submittals specified in the Special Provisions are received, approved by the Architect and returned to the Contractor and construction and material delivery schedules are established.

4 TERMS AND CONDITIONS

4.1 Contract Award

Contract Award will be ALL OR NONE based on the “TOTAL BID AMOUNT” on the Bid Schedule.

4.2 Payment Requirements

The Contractor will be paid in accordance with the bid schedule. Payments otherwise due may be withheld on account of substandard or defective work not remedied.

4.3 Changes

The Department reserves the right to revise the “Work Locations and Schedule” and to make other changes within the general Scope of Work as may be deemed necessary to best serve the interests of the Department. Changes in compensation, which may result from such revisions, shall be documented by formal Amendment to the contract and approved by the Contract Administrator.

4.4 Claims for Adjustment and Disputes

If the Contractor believes that additional compensation is due them for work or material not clearly covered in the contract, or not ordered as extra work, as defined herein, they shall prosecute their claim in the following manner.

Prior to doing the work on which they believe additional compensation is due them, the Contractor shall notify the District Engineer, in writing of their intent to file a claim. If such notification is not given, then the Contractor shall thereby waive their right to any claim for such additional compensation.

At a minimum, the detailed letter shall include a narration of events, citing of entitlement and a showing of the amount of compensation and/or adjustment of time believed due. Full documentation for all elements in the letter shall be included. The claim will be considered and a determination made. The District Engineer will notify the Contractor in writing of the decision.

The decision will be final and conclusive unless, within thirty (30) days from receipt of the District Engineer’s letter, the Contractor submits an appeal in writing to the Purchasing Agent. All pertinent information, references, arguments and data to support the claim shall be included. The Purchasing Agent will review the claim and the Contractor will be notified by mail. This decision will be final and conclusive.

In connection with any appeal proceeding under this subsection, the Contractor will be afforded an opportunity to be heard and offer evidence in support of their claim at any level of review. Pending final decision of a dispute hereunder the Contractor shall proceed diligently with performance of the contract.
4.5 **Force Majeure**

Neither party shall be liable or deemed to be in default for any Force Majeure delay in shipment or performance occasioned by unforeseeable causes beyond the control and without the fault or negligence of the parties, including, but not restricted to, acts of God or the public enemy, fires, floods, epidemics, quarantine, strikes, freight embargoes, or unusually severe weather, provided that in all cases the Contractor shall notify the State promptly in writing of any cause for delay and the State concurs that the delay was beyond the control and without the fault or negligence of the Contractor. The period for the performance shall be extended for a period equivalent to the period of the Force Majeure delay. Matters of the Contractor’s finances shall not be a Force Majeure.

4.6 **Default and Termination of Contract**

Should the Contractor neglect to prosecute the work properly, or fails to perform any provision of the contract, the Department, after seven (7) days from written notice to the Contractor, may without prejudice to any other remedy they may have, make good the deficiencies and may deduct the cost thereof from the payment then or thereafter due to the Contractor or, at its option, may terminate the contract and take possession of all materials, tools, fixtures and furnish the work by such means as the Department sees fit, and if the unpaid balance of the contract price exceeds the expense of finishing the work, such excess shall be paid to the Contractor, but if such expense exceeds such unpaid balance, the Contractor’s surety shall pay the difference to the Department.

4.7 **Termination for Convenience of the State**

The performance of work under this contract may be terminated by the state in accordance with this subsection in whole, or from time to time in part, whenever it shall be determined that such termination is in the best interest of the state. Any such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of work under the contract is terminated, and the date upon which such termination becomes effective.

4.8 **Appropriation by Legislature Required**

The State is a government entity and this Agreement shall in no way or manner be construed so as to bind or obligate the State of Idaho beyond the term of any particular appropriation of funds by the State’s Legislature as may exist from time to time. The State reserves the right to terminate this Agreement in whole or in part (or any order placed under it) if, in its sole judgment, the Legislature of the State of Idaho fails, neglects, or refuses to appropriate sufficient funds as may be required for the State to continue such payments, or requires any return or “give-back” of funds required for the State to continue payments, or if the Executive Branch mandates any cuts or holdbacks in spending. All affected future rights and liabilities of the parties hereto shall thereupon cease within ten (10) calendar days after notice to the Contractor. It is understood and agreed that the State’s payments herein provided for shall be paid from Idaho State Legislative appropriations.

4.9 **Indemnification**

The Contractor shall indemnify, save harmless, and defend regardless of outcome, the State from the expenses of and against all suits, actions, claims, or costs, expenses, and attorney fees that may be incurred because of any injuries or damages received or sustained by any person, persons, or property on account of the operations of the Contractor or their subcontractors; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in the work; or because of any act or omission, neglect, or misconduct of the Contractor or their subcontractors; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright; or from any claims or amounts arising or recovered under the Worker's Compensation Act or any other law, ordinance, order or decree.
4.10 Save Harmless

The Contractor shall exonerate, indemnify, and hold the Department harmless from and against and assume full responsibility for payment of all federal, state and local taxes or contributions imposed or required under unemployment insurance, social security, workman's compensation, and income tax laws with respect to the Contractor or the Contractor's employees engaged in the performance of this Agreement.

The Contractor will maintain Worker's Compensation Insurance as required by Idaho Code and will provide to the department a certificate of Idaho Worker’s Compensation Insurance issued by a surety licensed to write Idaho Worker’s Compensation in the State of Idaho, or an extraterritorial certificate approved by the Idaho Industrial Commission from a State that has a current reciprocity agreement with the Idaho Industrial Commission. Failure to provide a Certificate of Workman's Compensation Insurance may result in a price adjustment to cover any cost to the Department of providing the necessary workman's compensation insurance. The Department will not assume liability as an employer.

The Contractor shall protect, indemnify, and save the Department harmless from and against any damage, cost, or liability including reasonable attorney's fees for any or all injuries to persons, property or claims for damages arising from any acts or omissions of the Contractor, its employees, or subcontractors.

It is agreed by and between the parties hereto that in no event shall any official, officer, employee or agent of the Department be in any way personally liable or responsible for any covenant or agreement herein contained whether expressed or implied, nor for any statement, representation or warranty made herein or in any connection with this Agreement.

4.11 Insurance requirements

Within fifteen (5) calendar days of notification of award (or such other time as designated by the Purchasing Activity), the apparent successful bidder must provide certificates of insurance required herein and must maintain the insurance during the life of the Contract. There are no provisions for exceptions to this requirement. Failure to provide the certificates of insurance within the fifteen (5) calendar day period may be cause for your bid to be declared non-responsive or for your contract to be cancelled.

The Contractor must carry liability and property damage insurance that will protect it and the State of Idaho from claims for damages for bodily injury, including accidental death, as well as for claims for property damages, which may arise from operations under the Contract whether such operations be by themselves or by anyone directly or indirectly employed by either of them.

The Contractor cannot commence work under the Contract until it obtains all insurance required under this provision and furnishes a certificate or other form showing proof of current coverage to the State. All insurance policies and certificates must be signed copies. After work commences, the Contractor must keep in force all required insurance until the contract is terminated.

4.11.1 Commercial General and Umbrella Liability Insurance.

Contractor must maintain Commercial General Liability (CGL) and, if necessary, Commercial Umbrella insurance with a limit of not less than $2,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it must apply separately to this Contract. For Comprehensive or Commercial General Liability insurance policy containing an aggregate limit, ensure a limit of at least $4,000,000. The above limits may be met by policies having limits such as $1,000,000 per occurrence, $2,000,000 aggregate plus an umbrella policy of $2,000,000.
CGL insurance must be written on ISO occurrence form CG 00 01 (or a substitute form providing equivalent coverage) and must cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

4.11.2 Commercial Automobile and Commercial Umbrella Liability Insurance.

The Contractor must maintain Commercial Automobile Liability and, if necessary, Commercial Umbrella Liability insurance with a limit of not less than $2,000,000 each accident. Such insurance must cover liability arising out of any auto (including owned, hired, and non-owned autos).

Bidders may request a waiver from providing Commercial Automobile and Commercial Umbrella Liability Insurance in its bid if the bidder will not use any owned, hired or non-owned vehicles to conduct business under the contract, if it is awarded the contract, and the State of Idaho will consider the request. If the bidder submits a request to waive the provision of Commercial Automobile and Commercial Umbrella Liability Insurance after the due date and time for receipt of bids or proposals, the State of Idaho may not consider the request.

4.11.3 Workers Compensation Insurance and Employer’s Liability.

The Contractor must maintain workers compensation and employer’s liability. The employer’s liability must have limits not less than $500,000 each accident for bodily insurance by accident or $500,000 each employee for bodily injury by disease.

The Contractor must provide either a certificate of workers compensation insurance issued by a surety licensed to write workers compensation insurance in the State of Idaho, as evidence that the Contractor has in effect a current Idaho workers compensation insurance policy, or an extraterritorial certificate approved by the Idaho Industrial Commission from a state that has a current reciprocity agreement with the Idaho Industrial Commission.

4.11.4 State of Idaho as Additional Insured.

The liability insurance coverage required for performance of the Contract must include the State of Idaho, the (agency) and its divisions, officers and employees as additional insured, but only with respect to the Contractor’s activities to be performed under this Contract.

The Contractor must provide proof of the State of Idaho, the (agency) and its divisions, officers and employees being additional insured by providing endorsements to the liability insurance policies showing the State of Idaho, the (agency) and its divisions, officers and employees as additional insured. The endorsements must also show the policy numbers and the policy effective dates.

If a liability insurance policy provides for automatically endorsing additional insured when required by contract, then, in that case, the Contractor must provide proof of the State of Idaho, the (agency) and its divisions, officers and employees being additional insured by providing copies of the policy pages that clearly identify the blanket endorsement.

4.11.5 Notice of Cancellation or Change.

The Contractor must ensure that should any of the above described policies be cancelled before the expiration date thereof, or if there is a material change, potential exhaustion of aggregate limits or
intent not to renew insurance coverage(s), that written notice will be delivered to the ITD in accordance with the policy provisions.

4.11.6 Failure to Comply.

The Contractor must further ensure that all policies of insurance are endorsed to read that any failure to comply with the reporting provisions of this insurance, except for the potential exhaustion of aggregate limits, will not affect the coverage(s) provided to the State of Idaho, and its divisions, officers and employees.

4.11.7 Acceptable Insurers and Deductibles.

Insurance coverage required under the Contract must be obtained from insurers rated A-VII or better in the latest Bests Rating Guide and in good standing and authorized to transact business in Idaho. The Contractor must be financially responsible for all deductibles, self-insured retention’s and/or self-insurance included hereunder. The coverage provided by such policy will be primary to any coverage of the State on or related to the contract and must provide that the insurance afforded applies separately to each insured against whom a claim is made, except with respect to the limitation of liability.

4.11.8 Waiver of Subrogation.

All policies must contain waivers of subrogation. The Contractor waives all rights against the State and its officers, employees, and agents for recovery of damages to the extent these damages are covered by the required policies. Policies may contain deductibles but such deductibles will not be deducted from any damages due to the State.
ATTACHMENT A - BID SCHEDULE

IBR 18-502 D5 CFRP Girder Repair E000214

Company Name of Bidder: ________________________________

Contact Name/Phone: ________________________________

Contact E-mail: ________________________________

Provide your fully burdened Total Cost for providing the Girder Repair specified in this solicitation:

<table>
<thead>
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<th>DESCRIPTION</th>
<th>QTY</th>
<th>UM</th>
<th>UNIT PRICE</th>
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<td>1</td>
<td>LS</td>
<td>$______________</td>
</tr>
<tr>
<td>2</td>
<td>SP Bridge, Concrete Crack Repair Preparation</td>
<td>1</td>
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<tr>
<td>4</td>
<td>SP Bridge, Patch and Repair of Concrete Surface</td>
<td>1</td>
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Total Cost

$__________________

THIS ATTACHMENT MUST BE COMPLETED AND RETURNED WITH RESPONSE
ATTAChMENT B- AFFIDAVIT: DRUG FREE WORKPLACE PROGRAM

IBR 18-502 D5 CFRP Girder Repair E000214

STATE OF __________________________

COUNTY OF ______________________

The undersigned being duly sworn upon oath deposes and says that ____________________________

(Contractor Name)

complies with the provisions of Section 72-1717 Idaho Code (Drug Free Workplace program); that

_____________________________ provides a drug-free workplace program that complies with the

(Contractor Name)

provisions of Idaho Code, Title 72, Chapter 17 and will maintain such program throughout the life this contract

and that ___________________________ will subcontract work only to

(Contractor Name)

subcontractors meeting the requirements of Idaho Code, section 72-1717(1)(a).

_____________________________

Name of Contractor

_____________________________

Address

_____________________________

City and State

By: ____________________________

(Signature)

Subscribed and sworn to before me this ___________ day of ______________, in the year __________.

Commission expires: ______________

_____________________________

NOTARY PUBLIC, residing at

_____________________________

_____________________________

_____________________________

THIS ATTACHMENT MUST BE COMPLETED AND RETURNED WITH RESPONSE
ATTACHMENT C- SUBCONTRACTOR LICENSING

IBR 18-502 D5 CFRP Girder Repair E000214

Provide the names, addresses, public works contractor license numbers, and contract amounts of the Contractor or Subcontractor(s) who will do the plumbing, electrical, or HVAC work under the contract.

A. **Plumbing work by:** ____________________________________________ residing at:
   ____________________________________________
   whose Idaho Public Works Contractors License No. is: ____________________,
   whose State Plumbing Bureau License No. is: _________________. Amount: $_______________

B. **Electrical work by:** ____________________________________________ residing at:
   ____________________________________________
   whose Idaho Public Works Contractors License No. is: ____________________,
   whose State Electrical Bureau License No. is: _________________. Amount: $_______________

C. **HVAC work by:** ____________________________________________ residing at:
   ____________________________________________
   whose Idaho Public Works Contractors License No. is: ____________________,
   whose HVAC License No. is: _________________. Amount: $_______________

THIS ATTACHMENT MUST BE COMPLETED AND RETURNED WITH RESPONSE IF SUBCONTRACTING
ATTACHMENT D- SIGNATURE PAGE

Idaho Transportation Department
3311 W. State Street
Boise, Idaho 83703

SIGNATURE PAGE for Use with a Submitted IBR Response

Bids and pricing information must be typewritten or handwritten in ink. Originals and copies of the bid must be submitted in accordance with the solicitation documents. Submitted bids must include this signature page with the ORIGINAL signature (ink or electronic digital I.D.) of an individual authorized to bind of the submitting bidder.

NO LIABILITY WILL BE ASSUMED BY THE IDAHO TRANSPORTATION DEPARTMENT FOR A BIDDER’S FAILURE TO OBTAIN THE TERMS AND CONDITIONS AND ANY PROPERLY ISSUED SOLICITATION ADDENDUMS IN A TIMELY MANNER FOR USE IN THE BIDDER’S RESPONSE TO THIS SOLICITATION OR ANY OTHER FAILURE BY THE BIDDER TO CONSIDER THE TERMS, CONDITIONS, AND ANY ADDENDUMS IN THE BIDDER’S RESPONSE TO THE SOLICITATION.

Send your sealed bid package to:  Idaho Transportation Department
ATTN:  S. Todd Sorensen
PO Box 7129
Boise, Idaho 8377-1129

OR

FedEx, UPS, or other Couriers:

Idaho Transportation Department
ATTN:  S. Todd Sorensen
3311 W. State Street
Boise, Idaho 83703

This ITB or IBR response is submitted in accordance with all documents and provisions of the specified Bid Number and Title detailed below. By my signature below I accept the terms, conditions, and requirements contained in the solicitation in effect at the time this ITB or IBR was issued, as incorporated by reference into this solicitation. As the undersigned I certify I am authorized to sign and submit this response for the named bidder. I further acknowledge I am responsible for reviewing and acknowledging any addendums that have been issued for this solicitation.

Bid Number: IBR 18-502  Bid Title: D5 CFRP Girder Repair E000214

Bidder (Company Name): __________________________________________________________________________________

ADDRESS: _______________________________________________________________________________________________

CITY, ST, ZIP: ____________________________________________________________________________________________

PHONE: ________________________ FAX: _________________________ EMAIL: ______________________________

PUBLIC WORKS LICENSE NO:___________________________           FEIN:______________________________________

THIS SIGNATURE PAGE MUST BE SIGNED WITH AN ORIGINAL HANDWRITTEN SIGNATURE (PREFERABLY IN BLUE INK) OR AN ELECTRONIC DIGITAL I.D., AND RETURNED WITH YOUR BID FOR YOUR BID TO BE CONSIDERED.

_________________________________________________  _____________________________________
Original Signature (in ink or electronic digital I.D.)    Date

_________________________________________________  _____________________________________
Printed Name        Title