Date: July 7, 2020

ADDENDUM NO. Two (2)
PROJECT NO: 116769R
TITLE OF PROJECT: Dam Reconstruction
FACILITY LOCATION: Bastrop State Park, Bastrop County Texas

NOTICE TO ALL OFFERORS:

This addendum shall be considered part of the Contract Documents and is issued to change, amplify, or delete from or otherwise explain the documents where provisions of this addendum differ from those of the original contract documents. This addendum shall have precedence over the original contract documents and shall govern.

Offerors are hereby notified that they shall incorporate this addendum in their proposal, and it shall be construed that the Contractor's Proposal shall reflect with full knowledge, all items, changes and modifications to the contract documents herein specified.

Offerors are advised to check for updates, addenda issuance, and proposal opening date changes at the TPWD Infrastructure Division Website:

http://www.tpwd.state.tx.us/business/bidops/current_bid_opportunities/construction/

REPLACE the original Contractor’s Price Proposal issued in the solicitation package on May 20, 2020 with the attached Revised Contractor’s Price Proposal dated July 7, 2020. (9 pages)

The following specification sections and drawing are hereby INCORPORATED into the referenced solicitation issued on May 20, 2020:

1. Specification 05 05 13 Shop Applied Coatings for Metal
2. Specification 33 11 13 Concrete Pressure Pipe Bar-Wrapped Steel Cylinder Type
3. Manufacturer drawings for the 60“x60” trash rack

ATTACHED are the questions received within the timeframe stipulated in the Request for Competitive Sealed Proposal of a General Contractor and Contract Documents. Answers are provided immediately following each question. (7 pages)

Date, time and location for receipt of proposals remains the same.

July 30, 2020 at 2:00PM
Offerors shall acknowledge receipt of this addendum in the space provided on the Contractor's Price proposal form located above the signature block. WARNING: OFFEROR’S FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDA MAY RESULT IN REJECTION OF PROPOSAL.

END OF ADDENDUM NUMBER TWO (2)

Sincerely,

/s/ Mandy Holcomb
Mandy Holcomb, CTCD, CTCM
Sr. Contract Manager
Infrastructure Division

Attachments:

1. Revised Contractor’s Price Proposal (9 Pages)
2. Specification 05 05 13 Shop Applied Coatings for Metal (6 pages)
3. Specification 33 11 13 Concrete Pressure Pipe Bar-Wrapped Steel Cylinder Type (12 pages)
4. Manufacturer drawings for the 60”x60” trash rack (1 Page)
5. Question and Answers (7 Pages)
REVISED CONTRACTOR’S PRICE PROPOSAL

Texas Parks and Wildlife Department
4200 Smith School Road
Austin, Texas 78744

Having carefully examined the Request for Competitive Sealed Proposals (CSP) for Project No. 116769R, Dam Reconstruction located at Bastrop State Park, Bastrop County, Texas for the Texas Parks and Wildlife Department, as well as the premises and conditions affecting this work, and all other contract documents, the undersigned proposes to furnish all labor, equipment and materials necessary to complete the work for the sum of:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED</th>
<th>UNIT PRICE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Mobilization</td>
<td>1 LS</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>2 Preparation of ROW</td>
<td>5 AC</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>3 Toad Fence</td>
<td>4,130 LF</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>4 Care of Water</td>
<td>24 MO</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>5 Rock berm</td>
<td>100 LF</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>6 Erosion Control Log</td>
<td>4,140 LF</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>7 Slurry Wall</td>
<td>14,130 SF</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>8 Downstream ROW Clearing</td>
<td>0 N/A</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>9 Concrete Riprap</td>
<td>590 SY</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>10 Concrete Stillling Basin, Integral Color</td>
<td>460 CY</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>11 Concrete Retaining Walls, Integral Color</td>
<td>5,195 SF</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>12 Concrete Principal Spillway Riser, Integral Color</td>
<td>1 LS</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>13 Baffled Outlet</td>
<td>27 CY</td>
<td>$</td>
<td>-</td>
</tr>
<tr>
<td>ITEM</td>
<td>ESTIMATED</td>
<td>UNIT PRICE</td>
<td>PRICE</td>
</tr>
<tr>
<td>------</td>
<td>-----------</td>
<td>------------</td>
<td>-------</td>
</tr>
<tr>
<td>14</td>
<td>Reinforced Concrete Maintenance Ramp</td>
<td>45 SY</td>
<td>$</td>
</tr>
<tr>
<td>15</td>
<td>Roller Compacted Concrete (RCC)</td>
<td>3,220 CY</td>
<td>$</td>
</tr>
<tr>
<td>16</td>
<td>18-foot Double Swing Gate</td>
<td>1 EA</td>
<td>$</td>
</tr>
<tr>
<td>17</td>
<td>26-foot Double Swing Gate</td>
<td>1 EA</td>
<td>$</td>
</tr>
<tr>
<td>18</td>
<td>36-foot Double Swing Gate</td>
<td>1 EA</td>
<td>$</td>
</tr>
<tr>
<td>19</td>
<td>Pedestrian Rail</td>
<td>330 LF</td>
<td>$</td>
</tr>
<tr>
<td>20</td>
<td>Excavation</td>
<td>22,720 CY</td>
<td>$</td>
</tr>
<tr>
<td>21</td>
<td>Rock Riprap (12&quot;)</td>
<td>310 CY</td>
<td>$</td>
</tr>
<tr>
<td>22</td>
<td>Rock Riprap (18&quot;)</td>
<td>75 CY</td>
<td>$</td>
</tr>
<tr>
<td>23</td>
<td>Grouted Rock Riprap (18&quot;)</td>
<td>370 CY</td>
<td>$</td>
</tr>
<tr>
<td>24</td>
<td>Topsoil</td>
<td>3,230 SY</td>
<td>$</td>
</tr>
<tr>
<td>25</td>
<td>Tree &amp; Stump Removal (Clearing and Grubbing)</td>
<td>0 N/A</td>
<td>$</td>
</tr>
<tr>
<td>26</td>
<td>Vegetative Watering</td>
<td>3,230 SY</td>
<td>$</td>
</tr>
<tr>
<td>27</td>
<td>Irrigation</td>
<td>1 LS</td>
<td>$</td>
</tr>
<tr>
<td>28</td>
<td>Seeding</td>
<td>3,230 SY</td>
<td>$</td>
</tr>
<tr>
<td>29</td>
<td>Temporary Erosion Control Blanket</td>
<td>3,775 SY</td>
<td>$</td>
</tr>
<tr>
<td>30</td>
<td>Permanent Erosion Control Blanket</td>
<td>1,305 SY</td>
<td>$</td>
</tr>
<tr>
<td>31</td>
<td>Trees (installation, staking, bed prep, &amp; backfill)</td>
<td>79 EA</td>
<td>$</td>
</tr>
<tr>
<td>32</td>
<td>Trees (loblolly pine, planting only)</td>
<td>159 EA</td>
<td>$</td>
</tr>
<tr>
<td>33</td>
<td>6-inch PVC Pipe</td>
<td>256 LF</td>
<td>$</td>
</tr>
<tr>
<td>34</td>
<td>6-inch Slotted PVC Drain</td>
<td>1,715 LF</td>
<td>$</td>
</tr>
<tr>
<td>35</td>
<td>5'x5' Manhole</td>
<td>2 EA</td>
<td>$</td>
</tr>
<tr>
<td>36</td>
<td>60&quot; B-303 Bar Wrapped Concrete Cylinder Pipe (AWWA C303)</td>
<td>130 LF</td>
<td>$</td>
</tr>
<tr>
<td>37</td>
<td>Embankment (Structural Fill)</td>
<td>9,155 CY</td>
<td>$</td>
</tr>
<tr>
<td>38</td>
<td>Embankment (Clay/Impervious Fill)</td>
<td>440 CY</td>
<td>$</td>
</tr>
</tbody>
</table>
### DAM RECONSTRUCTION SUBTOTAL

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED</th>
<th>UNIT PRICE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
<td>2</td>
<td>EA</td>
<td>$</td>
</tr>
</tbody>
</table>

Note: All roadway elements associated with the dam are included in the Roadway subtotal.

### ROADWAY

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED</th>
<th>UNIT PRICE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>40  Traffic Control</td>
<td>24</td>
<td>MO</td>
<td>$</td>
</tr>
<tr>
<td>41  6-inch Continuously Reinforced Concrete</td>
<td>550</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>42  Excavation</td>
<td>630</td>
<td>CY</td>
<td>$</td>
</tr>
<tr>
<td>43  Topsoil</td>
<td>2,735</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>44  Embankment</td>
<td>2,850</td>
<td>CY</td>
<td>$</td>
</tr>
<tr>
<td>45  Vegetative Watering</td>
<td>2,735</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>46  Seeding</td>
<td>2,735</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>47  Temporary Erosion Control Blanket</td>
<td>1,105</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>48  Flexible Base</td>
<td>2,025</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>49  Cement Treated Aggregate Base</td>
<td>800</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>50  HMA (Base Course, Type B) (Prime Coat, Tack Coat)</td>
<td>1,921</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>51  HMA (Surface Course, Type D)</td>
<td>2,316</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>52  6-inch Curb &amp; Gutter</td>
<td>780</td>
<td>LF</td>
<td>$</td>
</tr>
<tr>
<td>53  Metal Beam Guard Fence</td>
<td>350</td>
<td>LF</td>
<td>$</td>
</tr>
<tr>
<td>54  Small Signs Assembly</td>
<td>39</td>
<td>EA</td>
<td>$</td>
</tr>
<tr>
<td>55  Delineators</td>
<td>16</td>
<td>EA</td>
<td>$</td>
</tr>
<tr>
<td>56  18&quot; Class III Reinforced Concrete Pipe</td>
<td>90</td>
<td>LF</td>
<td>$</td>
</tr>
</tbody>
</table>

**ROADWAY SUBTOTAL** $ -

### PARKING AREA

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED</th>
<th>UNIT PRICE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>57  Topsoil</td>
<td>2,355</td>
<td>SY</td>
<td>$</td>
</tr>
<tr>
<td>58  Embankment</td>
<td>3,820</td>
<td>CY</td>
<td>$</td>
</tr>
<tr>
<td>ITEM</td>
<td>ESTIMATED</td>
<td>UNIT PRICE</td>
<td>PRICE</td>
</tr>
<tr>
<td>-------</td>
<td>------------</td>
<td>------------</td>
<td>-------</td>
</tr>
<tr>
<td>59</td>
<td>Vegetative Watering</td>
<td>2,355 SY</td>
<td>$</td>
</tr>
<tr>
<td>60</td>
<td>Seeding</td>
<td>2,355 SY</td>
<td>$</td>
</tr>
<tr>
<td>61</td>
<td>Temporary Erosion Control Blanket</td>
<td>1,370 SY</td>
<td>$</td>
</tr>
<tr>
<td>62</td>
<td>Flexible Base</td>
<td>1,175 SY</td>
<td>$</td>
</tr>
<tr>
<td>63</td>
<td>HMA (Base Course, Type B) (Prime Coat, Tack Coat)</td>
<td>1,159 SY</td>
<td>$</td>
</tr>
<tr>
<td>64</td>
<td>HMA (Surface Course, Type D)</td>
<td>1,104 SY</td>
<td>$</td>
</tr>
<tr>
<td>65</td>
<td>Wheel Stops</td>
<td>8 EA</td>
<td>$</td>
</tr>
<tr>
<td>66</td>
<td>Small Signs Assembly</td>
<td>12 EA</td>
<td>$</td>
</tr>
</tbody>
</table>

**PARKING AREA SUBTOTAL**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED</th>
<th>UNIT PRICE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>Lake Aerator Equipment</td>
<td>1 LS</td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL BASE PROPOSAL ITEMS NO. 1 - 66**

**Total Base Proposal Items 1-66 written in words**

**ALTERNATE PROPOSAL ITEM NO. 1** - Furnish equipment, materials and incidentals necessary to provide Lake Aerator equipment including weighted air tubing, flexible membrane disc diffusers, and associated couplings in accordance with the Request for Competitive Sealed Proposals and Contract Documents.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED</th>
<th>UNIT PRICE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>Lake Aerator Equipment</td>
<td>1 LS</td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL ALTERNATE PROPOSAL ITEM NO. 1**

**Total Alternate Proposal Item No. 1 written in words**

**ALTERNATE PROPOSAL ITEM NO. 2** - Furnish all labor, equipment, materials, and incidentals necessary to repair Park Roads 1A and 1C from New Parking Area to Harmon Road in accordance with the Request for Competitive Sealed Proposals and Contract Documents.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED</th>
<th>UNIT PRICE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>68</td>
<td>Park Road 1A and 1C Full Depth Repair</td>
<td>6,000 SY</td>
<td>$</td>
</tr>
</tbody>
</table>

**Total Alternate Proposal Item No. 2 written in words**
**ITEM** | **ESTIMATED** | **UNIT PRICE** | **PRICE**
--- | --- | --- | ---
69 | Park Road 1A and 1C Overlay | 22,225 SY | $

**TOTAL ALTERNATE PROPOSAL ITEM NO. 2**

**TOTAL BASE PROPOSAL ITEMS NO. 1-66 + ALTERNATE PROPOSAL ITEM NO. 1 + ALTERNATE PROPOSAL ITEM NO. 2**

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EACH PRICEING ITEM includes any and all appurtenant work and items necessary for fully functional and operational systems, COMPLETE AND IN PLACE, IN ACCORDANCE WITH THE Request for Competitive Sealed Proposals and Contract Documents. All work not specifically set forth as a pay item in the Proposal shall be considered a subsidiary obligation of the CONTRACTOR and all costs in connection therewith shall be included in the prices bid. Work that is subsidiary to pay items includes, but is not limited to the following: SWPPP, aggregate drainage material, cleanout, backflow prevention valve, rodent guard, pedestrian rail, trash rack, slide gate, ladders, markers and striping, temporary seeding, concrete and/or asphalt pavement replacement (in areas outside of the pay limits that was damaged by the contractor), and all other work required to complete the project and restore the area of construction to preconstruction condition.

UNIT PRICE as stated in the Price Proposal Schedule is the price per unit of measure for materials and services to be added to the Contract Sum by appropriate change order in the event it is determined by Owner that the materials and services are necessary.

The determination of the lowest Proposal price (*for receipt of the total 40% points assigned to Criteria One, Item 6 of the CSP*) will be based on the TOTAL BASE PROPOSAL ITEMS NO 1 - 66, ALTERNATE PROPOSAL ITEM NO. 1 AND ALTERNATE PROPOSAL ITEM NO. 2. HOWEVER, THE OWNER RESERVES THE RIGHT TO AWARD ANY COMBINATION OF PROPOSAL ITEMS OR TO REJECT ALL PROPOSALS.

OFFEROR UNDERSTANDS AND ACKNOWLEDGES THAT OFFEROR MUST MEET THE MINIMUM EXPERIENCE REQUIREMENT SET FORTH IN DIVISION 1, GENERAL REQUIREMENTS, SECTION 01000, SPECIAL CONDITIONS TO BE ELIGIBLE FOR AWARD OF THIS CONTRACT. OFFEROR, BY SIGNING THIS PROPOSAL, AFFIRMS THAT OFFEROR MEETS SUCH MINIMUM REQUIREMENTS.

The undersigned further agrees that, if awarded the Contract, the work will be completed within **seven hundred thirty (730) calendar days** commencing on the date specified in the Notice to Proceed.

The undersigned agrees that when written notice of proposal acceptance is furnished by the Owner within ninety (90) calendar days after the deadline for receipt of proposals, the undersigned will, within the stipulated time, execute and deliver the contract and all required bonds, certificates of
insurance, and PR-1 and PR-2 submittals and Form 1295 to the Owner. Failure to timely provide the insurance certificate, bonds, and submittals shall be grounds for disqualification of proposal and forfeiture of bid security. In such circumstances, TPWD shall be authorized to proceed to the next offeror in the order of the selection ranking.

If the above proposal amount exceeds $25,000.00, the undersigned shall include herewith security in the form of a bid bond, certified check, or cashier’s check for an amount not less than five percent (5%) of the total amount of the price to be awarded by Owner, unless otherwise stipulated under Special Conditions. To ensure adequate bid security, offerors should calculate bid security based on the total amount of all base price items plus all additive alternate prices (if any). The bid security will be returned to or forfeited by the undersigned in accordance with the Bid Security provision in the Instructions to Offerors. The undersigned further agrees that this bid security is the appropriate measure of liquidated damages which the Owner will sustain by the failure of the undersigned to execute and deliver said contract and required documents.

The undersigned agrees that this proposal will not be withdrawn for a period of ninety (90) calendar days from the date set for receipt of proposals, and the undersigned further agrees that the bid security will be forfeited in the event this proposal is withdrawn before expiration of said ninety (90) calendar days.

Pursuant to 2252.908 of the Government Code, the awarded Contractor(s) must use the Texas Ethics Commissions Application to enter the required information on Form 1295. Awarded Contractor(s) shall print a copy of the completed form, which will include a certification of filing that will contain a unique certification number. An authorized agent of the business entity must sign the printed copy of the form and have the form notarized. The completed Form 1295 with the certification of filing must be filed at the time of execution of the contract.

Additional information can be found at: https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

Offeror represents and warrants that, in accordance with Section 2155.005 of the Texas Government Code, neither the Offeror, nor the firm, corporation, partnership, or institution represented by the Offeror, or anyone acting for such firm, corporation, or institution has (1) violated any provision of the Texas Free Enterprise and Antitrust Act of 1983, Chapter 15 of the Texas Business and Commerce Code, or the Federal antitrust laws, or (2) communicated directly or indirectly the contents of this bid to any competitor or any other person engaged in the same line of business as the Offeror.

Pursuant to Texas Government Code, Title 10, Subchapter A, §2155.004 (a), Offeror certifies that neither Offeror nor any person or entity represented by Offeror has received compensation from TPWD to participate in the preparation of the specifications or solicitation on which this bid or contract is based. Under §2155.004 (b) of the Texas Government Code, Offeror certifies that the individual or business entity named in this bid or contract is not ineligible to receive the specified contract and acknowledges that the contract may be terminated, and payment withheld if this certification is inaccurate.

Pursuant to Texas Government Code, Title 10, Subchapter A, §2155.004 (b), §2155.006 (c), and Subchapter B, §2261.053 (c), Offeror certifies that the individual or business entity named in this bid is not ineligible to receive the specified contract and acknowledges that this contract may be terminated and payment withheld if this certification is inaccurate.

By signature hereon, the Offeror hereby certifies that he/she is not currently delinquent in the payment of any franchise taxes owed the State of Texas under Chapter 171, Tax Code. Making a false statement as to corporate tax status is a material breach of contract.

Offeror certifies that the bidding entity and its principals are eligible to participate in this transaction and have not been subjected to suspension, debarment, or similar ineligibility determined by any federal, state or local governmental entity. Entities ineligible for federal procurement are listed at
Offeror certifies that it is not listed in the prohibited vendors list authorized by Executive Order No. 13224, “Blocking Property and Prohibiting Transactions with Persons Who Commit, Threaten to Commit, or Support Terrorism”, published by the United States Department of the Treasury, Office of Foreign Assets Control.

Under Section 2155.0061 of the Texas Government Code, the Offeror certifies that the individual or business entity named in this Response or contract is not ineligible to receive the specified contract and acknowledges that this contract may be terminated, and payment withheld if this certification is inaccurate.

Pursuant to Section 2155.003 of the Texas Government Code, Offeror represents and warrants that it has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant in connection with the contract.

Offeror agrees that any payments due under this contract shall be applied towards any debt or delinquency that is owed to the State of Texas.

Offeror represents and warrants its compliance with the requirements of the Americans With Disabilities Act (ADA0 and its implementing regulations, as each may be amended.

Offeror agrees to comply with Texas Government Code, Title 10, Subtitle D, §2155.4441, relating to use of service contracts and the purchase of products and materials produced in the State of Texas.

Offeror certifies that if a Texas address is shown as the address of the Offeror on this bid, Offeror qualifies as a Texas Bidder as defined in Section 2155.444(c) of the Texas Government Code.

If Offeror is required to make a certification pursuant to Section 2271.001 of the Texas Government Code, Offeror certifies that Offeror does not boycott Israel and will not boycott Israel during the term of the contract resulting from this solicitation. If Offeror does not make that certification, Offeror must indicate that in its Bid and state why the certification is not required.

Section 2252.152 of the Texas Government Code prohibits TPWD from awarding a contract to any person who does business with Iran, Sudan, or a foreign terrorist organization as defined in Section 2252.151 of the Texas Government Code. Offeror certifies that it is not ineligible to receive the contract.

By signature hereon, the Offeror acknowledges that Texas Government Code, Title 10, Subchapter F, §§ 2252.201-2252.205 requires that all iron or steel products produced through a manufacturing process used in this project must be produced in the United States. By signing this bid, Offeror certifies that its bid price represents full compensation for compliance with the requirements of Texas Government Code, Title 10, Subchapter F, §§ 2252.201-2252.205.

Pursuant to Section 2254.0031 of the Texas Government Code, which incorporates by reference Section 271.904(d) of the Texas Local Government Code, Offeror shall perform services (1) with professional skill and care ordinarily provided by competent engineers or architects practicing under the same or similar circumstances and professional license, and (2) as expeditiously as is prudent considering the ordinary professional skill and care of a competent engineer or architect.

By signing this bid, Offeror acknowledges and understands that the acceptance of funds by the Offeror or any other entity or person directly under this Contract, or indirectly through a subcontract under this Contract, shall constitute acceptance of the authority of the State Auditor's Office, Comptroller or other agency of the State of Texas, TPWD or any successor agency, to conduct an audit or investigation in connection with those funds. The Offeror further agrees to cooperate fully with the above parties in the conduct of the audit or investigation, including
providing access to any information the state auditor considers relevant to the investigation or audit. The Offeror shall ensure that this paragraph concerning the State’s authority to audit funds received indirectly by subcontractors through the Offeror and the requirement to cooperate is included in any subcontract it awards.

Offeror represents and warrants that the provision of goods and services or other performance under the contract will not constitute an actual or potential conflict of interest or reasonably create an appearance of impropriety.

Under Section 231.006(d) of the Texas Family Code, regarding child support, the Offeror certifies that the individual or business entity named in this bid is not ineligible to receive the specified payment and acknowledges that the contract may be terminated, and payment may be withheld if this certification is inaccurate. Furthermore, any Offeror subject to Section 231.006 of the Texas Family Code, must include, in the spaces(s) below, the names and Social Security numbers of each person with at least 25% ownership of the business entity submitting the bid.

<table>
<thead>
<tr>
<th>Name</th>
<th>SSN</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>SSN</td>
<td>%</td>
</tr>
<tr>
<td>Name</td>
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**FEDERAL PRIVACY ACT NOTICE:** This notice is given pursuant to the Federal Privacy Act. Disclosure of your Social Security Number (SSN) is required under Section 231.006(c) and Section 231.302(c)(2) of the Texas Family Code. The SSN will be used to identify persons that may owe child support. The SSN will be kept confidential to the fullest extent allowed under Section 231.302(e), Texas Family Code.

Under Section 669.003 of the *Texas Government Code*, Offeror certifies that it does not employ, or has disclosed its employment of, any former executive head of the agency. Offeror must provide the following information in the bid.

Name of former executive: _____________________________
Name of State agency: _______________________________
Date of separation from State agency: ___________________
Position with Offeror: ________________________________
Date of employment with Offeror: _____________________

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RECEIPT IS HEREBY ACKNOWLEDGED OF THE FOLLOWING ADDENDA TO THIS IFB (INITIAL IF APPLICABLE)

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WARNING: OFFEROR’S FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDA MAY RESULT IN REJECTION OF BID.

OFFEROR’S AFFIRMATION: SIGNING THIS BID WITH A FALSE STATEMENT OR MATERIAL MISREPRESENTATIONS MADE DURING THE PERFORMANCE OF A CONTRACT IS A MATERIAL BREACH OF CONTRACT AND SHALL VOID THE SUBMITTED BID OR ANY RESULTING CONTRACTS.

The undersigned certifies that I am duly authorized to submit this bid and execute a contract on my own behalf or on behalf of the Offeror listed below.

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<th>Name of Contracting Firm</th>
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PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Shop-applied coatings for architectural metals.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

A. American Architectural Manufacturers Association (AAMA):
   1. AAMA 621 - Voluntary Specification for High Performance Organic Coatings on Coil Coated Architectural Hot Dipped Galvanized (HDG) and Zinc-Aluminum Coated Steel Substrates.
   2. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels

B. ASTM International (ASTM):
   1. ASTM B 117 - Practice for Operating Salt Spray (Fog) Apparatus.
   2. ASTM G 85 annex 5 – Modified Salt Spray Cyclic Fog Test
   5. ASTM D 2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.

1.3 SUBMITTALS

TPWD approval is required for submittals with a “TPWD” designation; submittals not having a “TPWD” designation are for Contractor Quality Control approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

A. Product Data: For each type of coating product specified.
B. Samples for Selection: For each color, gloss specified.
C. Samples for Verification: For each coating product, for each color, gloss, and texture specified, on specified substrate.
D. Product test reports.
E. Qualifications: For shop-applied coatings Applicator.
F. Maintenance data.
G. Warranty: Sample of special warranty.

1.4 QUALITY ASSURANCE

A. Applicator Qualifications: Coating manufacturer's certified Applicator who is equipped, trained and approved for application of coatings required for this Project, and is approved to provide warranty specified in this Section.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver, unload, and store shop-coated items so that they remain free of damage or deformation. Package and protect items during shipping and handling. Protect stored items from water; stack to facilitate drainage. Keep shop-coated items out of contact with materials that may adversely affect the coating.
B. Protect shop-coated items with protective covering until installed.

1.6 COORDINATION

A. Coordinate submittal and selection procedures for items to receive shop-applied coatings. Where items are indicated to match coatings selected for other items, adjust formulations as required to achieve match. Submit samples for verification indicating compliance with matching requirements.

1.7 WARRANTY

A. Coating Warranty: Coating Applicator's warranty in which Applicator agrees to repair finish or replace coated items that demonstrate deterioration of shop-applied finishes within warranty period indicated.
1. Exposed Coating: Deterioration includes but is not limited to:
   a. Color fading in excess of 5 Delta E Hunter units per ASTM D 2244.
   b. Peeling, checking, or cracking of coating adhesion to metal.
   c. Chalking in excess of a No. 8 per ASTM D 4214, when tested per Method D 659.
   d. Corrosion of substrate in excess of a No. 6 on cut edges and a No. 8 on field surfaces, when measured per ASTM D 1654.

2. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Product: Provide shop-applied coatings manufactured by PPG Industries, Inc., Pittsburgh, PA, (888) 774-4332, Email: ideascapes@ppg.com; Website: www.ppgideascapes.com.

2.2 HIGH-PERFORMANCE ORGANIC FINISH MATERIALS - EXTRUSIONS

A. Liquid Fluoropolymer Aluminum Extrusion Coatings, AAMA 2605: Minimum 70 percent PVDF resin, by weight, in color coat.
   3. Salt Spray Resistance – ASTM G 85 – 2,000 hours
   4. Humidity – ASTM D 2247 – 1,000 hours
   5. Dry Film Thickness, ASTM D 1400: 0.20mil primer coat plus 1.0 mil color coat, 1.20 mil total, minimum thickness.
   6. Dry Film Thickness, ASTM D 1400: 0.20 mil primer coat plus 1.0 mil color coat and 0.4 mil clear topcoat, 2.6 mil total, minimum thickness.

B. Liquid Fluoropolymer Aluminum Extrusion Coatings, AAMA 2604: 50% PVDF resin, by weight, in color coat.
   1. Product: PPG Industries, Inc., Acrynar
   4. Humidity
   5. Dry Film Thickness, ASTM D 7901: 0.20 mil primer coat plus 1.0 mil color coat, 1.2 mil total, minimum thickness.

2.3 POWDER COATING MATERIALS - EXTRUSIONS

A. Powder Coatings, Fluoropolymer, meeting performance requirements of AAMA 2605:
   3. Salt Spray Resistance, ASTM G 85: 2,000 hours.
   4. Humidity Resistance, ASTM D 2247: 4,000 hours.
   5. Dry Film Thickness, ASTM D 7901: 0.20-0.30 mil primer coat plus 1.5 to 2.5 mil Duranar Powder Topcoat, 1.7 mil total, minimum thickness.

B. Powder Coatings, Fluoropolymer, meeting performance requirements of AAMA 2605:
3. Salt Spray Resistance, ASTM G 85: 2,000 hours.
4. Humidity Resistance, ASTM D 2247: 4,000 hours.
5. Dry Film Thickness, ASTM D 7901: [2.0] mil, minimum thickness.

C. Powder Coatings, Polyester, meeting performance requirements of AAMA 2604.
2. Pencil Hardness, ASTM D 3363: H – 2H.
4. Humidity Resistance, ASTM D 2247: 3,000 hours.
5. Dry Film Thickness, ASTM D 7901: [2.0] mil, minimum thickness.

2.4 HIGH-PERFORMANCE ORGANIC FINISH MATERIALS – COIL COATINGS

A. Liquid Fluoropolymer Aluminum Sheet Coil Coatings, AAMA 2605: 70 percent PVDF resin, by weight, in color coat.
2. Pencil Hardness, ASTM D 3363: HB - H.
4. Humidity Resistance, ASTM D 2247: 1,000 hours.
5. Dry Film Thickness, ASTM D 7901: 0.15 mil primer coat plus 0.70 mil color coat, 0.85 mil total, minimum thickness.
6. Dry Film Thickness, ASTM D 7901: 0.15 mil primer coat plus 0.70 mil color coat and 0.45 mil clear topcoat, 1.25 mil total, minimum thickness.
7. Dry Film Thickness, ASTM D 7901: 0.80 mil primer coat plus 0.80 mil color coat, 1.60 mil total, minimum thickness.
8. Dry Film Thickness, ASTM D 7901: 0.80 mil primer coat plus 0.80 mil color coat and 0.80 clear topcoat, 2.40 mil total, minimum thickness.

B. Liquid Fluoropolymer Aluminum Sheet Coil Coatings, AAMA 2605: FEVE resin.
1. Product: PPG Industries, Inc., Coraflon XL.
2. Pencil Hardness, ASTM D 3363: HB - H.
4. Humidity Resistance, ASTM D 2247: 3,000 hours.
5. Dry Film Thickness, ASTM D 7901: 0.6 mil clear coat

C. Liquid Fluoropolymer Steel Sheet Coil Coatings, AAMA 621: Minimum 70 percent PVDF resin, by weight, in color coat.
2. Pencil Hardness, ASTM D 3363: HB - H.
4. Humidity Resistance, ASTM D 2247: 1,000 hours.
5. Dry Film Thickness, ASTM D 7901: 0.15 mil primer coat plus 0.70 mil color coat, 0.85 mil total, minimum thickness.
6. Dry Film Thickness, ASTM D 7901: 0.15 mil primer coat plus 0.70 mil color coat and 0.45 mil clear topcoat, 1.25 mil total, minimum thickness.
7. Dry Film Thickness, ASTM D 7901: 0.80 mil primer coat plus 0.80 mil color coat, 1.60 mil total, minimum thickness.
8. Dry Film Thickness, ASTM D 7901: 0.80 mil primer coat plus 0.80 mil color coat and 0.80 clear topcoat, 2.40 mil total, minimum thickness.

D. Liquid Fluoropolymer Steel Sheet Coil Coatings, AAMA 621: FEVE resin.
   1. Product: PPG Industries, Inc., Coraflon XL.
   2. Pencil Hardness, ASTM D 3363: HB - H.
   4. Humidity Resistance, ASTM D 2247: 1,000 hours.
   5. Dry Film Thickness, ASTM D 7901: 0.6 mil clear coat

2.5 INTERIOR ORGANIC FINISHING MATERIALS – EXTRUSION

A. Liquid acrylic and polyester one coat finishes meeting AAMA 2603
   2. Pencil Hardness – H minimum
   3. Salt Spray Resistance, ASTM B117: 1500 hours
   4. Humidity Resistance, ASTM D2247: 1500 hours
   5. Dry Film Thickness, ASTM D1400: 1.0 mil +/- 0.2 mil

B. Powder polyester one coat finish meeting AAMA 2603.
   1. Product: PPG Industries, Envirocron 03
   2. Pencil Hardness: H minimum
   3. Salt Spray Resistance, ASTM B117: 1500 hours
   4. Humidity Resistance, ASTMD2247: 1500 hours
   5. Dry Film Thickness, ASTM1400: 2.5 mils +/- 0.5

2.6 INTERIOR ORGANIC FINISHING MATERIALS – COIL

A. Liquid acrylic one coat finish
   1. Product: **PPG Industries, Duracron**
   2. Pencil Hardness: HB-H
   3. Salt Spray Resistance, ASTM B117: 1,000 hours
   4. Humidity resistance, ASTM D2247: 1,000 hours
   5. Dry Film Thickness, ASTM D1005: 0.75-0.85 mils

2.7 FINISHES

A. Pretreatment: Mechanically clean and chemically pretreat fabricated items in accordance with coating manufacturer's requirements and AAMA requirements for finish indicated.

B. Application: Apply primer and finish coats in accordance with coating manufacturer's requirements for finish indicated.

2.8 SHOP-APPLIED COATINGS SCHEDULE

A. High-Performance Organic Finish for Aluminum Extruded Items: 2-coat fluoropolymer finish: AAMA 2604.
   1. Coated Items: As designated or scheduled.
2. Color: As designated or scheduled.
3. Gloss: As designated or scheduled.

B. High-Performance Organic Finish for Aluminum Sheet Items: 2-coat fluoropolymer finish: AAMA 2605.
1. Coated Items: <Insert list of extruded items to receive high-performance organic finish>.
2. Color: As designated or scheduled.
3. Gloss: As designated or scheduled.
4. Concealed/ Backer Finish: Pretreat substrate and apply coating applicator's standard acrylic, polyester or epoxy finish in accordance with manufacturers’ requirements.

C. High-Performance Organic Finish for Steel Sheet Items: 2-coat fluoropolymer finish: AAMA 621.
1. Coated Items: As designated or scheduled
2. Color: As designated or scheduled.
3. Gloss: As designated or scheduled.
4. Concealed/ Backer Finish: Pretreat substrate and apply coating applicator's standard acrylic, polyester or epoxy finish in accordance with manufacturers’ requirements.

D. Powder-Coat Finish for [Aluminum Extruded Items] AAMA [2604] [2605] [and] [Steel Items Fabricated from Shapes and Plates]:
1. Coated Items: As designated or scheduled.
2. Color: As designated or scheduled.
3. Gloss: As designated or scheduled.
4. Surface: As designated or scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Refer to individual specifications sections for installation requirements for items receiving shop-applied coatings.

3.2 PROTECTION

A. Remove protective wrap from coated items at time of installation.

END OF SECTION 05 05 13
116769R Bastrop State Park Dam Replacement

SECTION 33 11 13 - CONCRETE PRESSURE PIPE, BAR-WRAPPED, STEEL CYLINDER TYPE

PART 1 - GENERAL

1.1 PRICE AND PAYMENT PROCEDURES

   A. Measurement and Payment

      1. Concrete Pressure Pipe

         a. Measurement

            1) Measured horizontally along the surface from center line to centerline of the
               fitting or appurtenance

         b. Payment

            1) The work performed and materials furnished in accordance with this Item and
               measured as provided under “Measurement” shall be paid for at the unit price
               bid per schedule of values.

            c. The price bid shall include:

               1) Furnishing and installing Concrete Pressure Pipe with joints as specified by
                  the Drawings, Mobilization, Coating, Lining, Pavement removal, Excavation,
                  Hauling, Disposal of excess material, Furnishing, placement, and compaction
                  of embedment, Trench water stops, Joint restraint, Bolts and nuts, Welding,
                  Gaskets, if allowed, Furnishing, placement, and compaction of backfill,
                  Clean-up, Cleaning, Disinfection and Testing.

      2. Concrete Pressure Pipe Fittings

         a. Measurement

            1) Measurement for this Item shall be by lump sum.

         b. Payment

            1) The work performed and materials furnished in accordance with this Item
               shall be paid for subsidiary to concrete pressure pipe.

            c. The price bid shall include:

               1) Furnishing and installing Concrete Pressure Pipe Fittings as specified by the
                  Drawings, Mobilization, Coating, Lining, Pavement removal, Excavation,
                  Hauling, Disposal of excess material, Furnishing, placement, and compaction
                  of embedment, Trench water stops, Joint restraint, Bolts and nuts, Welding,
                  Gaskets, if allowed, Furnishing, placement, and compaction of backfill,
                  Clean-up, Cleaning, Disinfection, Testing

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications
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<th>Organization</th>
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<td><strong>AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME):</strong></td>
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<tr>
<td>ASME B16.1</td>
<td>Gray Iron Pipe Flanges and Flanged Fittings (Classes 25, 125 and 250).</td>
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<td><strong>AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM):</strong></td>
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<tr>
<td>ASTM A307</td>
<td>Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.</td>
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<td>ASTM C33</td>
<td>Standard Specification for Concrete Aggregates.</td>
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<tr>
<td>ASTM C293</td>
<td>Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading).</td>
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<tr>
<td>ASTM C497</td>
<td>Methods of Testing Concrete Pipe.</td>
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<tr>
<td>ASTM C882</td>
<td>Standard Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear.</td>
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<td><strong>AMERICAN WELDING SOCIETY (AWS):</strong></td>
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<tr>
<td>AWS D1.1</td>
<td>Structural Welding Code - Steel.</td>
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<td><strong>AMERICAN WATER WORKS ASSOCIATION (AWWA):</strong></td>
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<tr>
<td>AWS C206</td>
<td>Field Welding of Steel Water Pipe.</td>
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<td>AWS C207</td>
<td>Steel Pipe Flanges for Waterworks Service - Sizes 4 IN through 144 IN.</td>
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<td>AWS C303</td>
<td>Concrete Pressure Pipe, Bar-Wrapped, Steel-Cylinder Type.</td>
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<tr>
<td>AWS M9</td>
<td>Concrete Pressure Pipe.</td>
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<td><strong>AMERICAN WATER WORKS ASSOCIATION/AMERICAN NATIONAL STANDARDS INSTITUTE (AWWA/ANSI):</strong></td>
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1.3 SUBMITTALS

A. Product Data

1. Exterior Coating
   a. Material data
   b. Application recommendations
   c. Field touch-up procedures

2. Joint Wrappers
   a. Material
   b. Installation recommendations

3. Flexible Joint Couplings
   a. Manufacturer
   b. Model

4. Mixes
   a. Mortar for interior joints and patches
   b. Bonding agents for patches

5. Gaskets (if applicable)

B. Shop Drawings – Furnish for Concrete Pressure Pipe used in the potable water systems including:

1. Wall thickness design calculations sealed by a Licensed Professional Engineer in Texas including:
   a. Internal pressure
      1) Working Pressure
      2) Test Pressure
      3) Surge pressure
   b. External pressure
      1) Deflection
      2) Buckling
   c. Special physical loading such as supports or joint design
   d. Thermal expansion and/or contraction, if applicable for the proposed installation

2. Thrust restraint calculations for all fittings and valves including the restraint length sealed by a Licensed Professional Engineer in Texas.

3. Fabrication and lay drawings showing a schematic location with profile and a tabulated layout schedule that is sealed by a Licensed Professional Engineer in Texas and includes:
   a. Pipe class
   b. Joint types
   c. Fittings
d. Thrust Restraint  
e. Stationing (in accordance with the Drawings)  
f. Transitions  
g. Joint deflection  
h. Outlet locations for welding, ventilation, and access  
i. Welding requirements  

C. Certificates and Test Reports  
1. Submittals for certificates and testing reports shall be as outlined in Article 1.4 of this Section.  

1.4 QUALITY ASSURANCE  
A. Qualifications  
1. Manufacturers  
a. Shall be American Concrete Pressure Pipe Association (ACPPA) Quality Program certified, I.S.O. Quality Certification Program certified, or equal, for Concrete Pressure Pipe and accessory manufacturing.  
b. Pipe manufacturing operations (pipe, lining, and coatings) shall be performed under the control of the manufacturer.  
c. Pipe shall be the product of 1 manufacturer which has had not less than 5 years successful experience manufacturing AWWA C303 pipe of the particular type and size indicated.  
   1) This experience record will be thoroughly investigated by the Engineer, and acceptance will be at the sole discretion of the Engineer and City.  
   2) Pipe manufacturing operations (pipe, fittings, lining, and coating) shall be performed at 1 location, unless otherwise approved by the Engineer.  
d. Pipe shall be manufactured in accordance with the latest revisions of AWWA C303.  

B. Certifications  
1. Prior to shipment of the pipe, the Pipe Manufacturer shall submit the following:  
a. A Certificate of Adequacy of Design stating that the pipe to be furnished complies with AWWA C303 and these Specifications  
b. Copies of results of factory hydrostatic tests shall be provided to the Engineer  
c. Mill certificates, including chemical and physical test results for each heat of steel  
   1) The manufacturer shall perform the tests described in AWWA C303, for all pipe, fittings, and specials, except that the absorption test detailed in this Specification shall supersede the requirements of the applicable portion of AWWA C303.  
d. Certified test reports for welder certification for factory and field welds in accordance with AWWA C303, Section 5  
e. Certified test reports for cement mortar tests
f. Certified test reports for steel cylinder tests

C. Hydrostatic Pressure Testing
   1. Hydrostatic pressure testing shall meet or exceed the requirements of AWWA C303 Section 4.6 – Fabrication.
      a. Each pipe cylinder, with rings welded to its ends, shall be hydrostatically tested prior to application of lining or coating.
      b. The internal test pressure shall be that which results in a fiber stress equal to 75 percent of the minimum yield strength of the steel used.
      c. Each pipe cylinder tested shall be completely watertight under maximum test pressure.
      d. Test pressure shall be held for sufficient time to observe the weld seams.
      e. Pipe manufacturer shall maintain a recording of the pressure gauge report and provide to the Engineer.
   2. Fittings shall be fabricated from hydrostatically tested pipe or fabricated of welded steel sheets or plates.
      a. Fittings shall be tested in accordance with AWWA C303.
   3. Factory Testing
      a. Cement Mortar Coating - Absorption Test
         1) A water absorption test shall be performed on samples of cured mortar coating taken from each working shift.
            a) The mortar coating samples shall have been cured in the same manner as the pipe.
            b) A test value shall consist of the average of a minimum of 3 samples taken from the same working shift.
            c) The test method shall be in accordance with ASTM C497, Method A.
            d) The average absorption value for any test shall not exceed 9 percent and no individual sample shall have an absorption exceeding 11 percent.
            e) Tests for each working shift shall be performed on a daily basis until conformance to the absorption requirements has been established by 10 consecutive passing test results, at which time testing may be performed on a weekly basis for each working shift.
               (1) Daily testing shall be resumed for each working shift with failing absorption test results and shall be maintained until conformance to the absorption requirements is re-established by 10 consecutive passing test results.

D. Cement Mortar Lining
   1. Shop-applied cement mortar linings shall be tested in accordance with AWWA C303.

E. Manufacturer’s Technician for Pipe Installation
   1. Pipe Manufacturer’s Representative
a. During the construction period, the pipe manufacturer shall furnish the services of a factory trained, qualified, job experienced technician to advise and instruct, as necessary, in pipe laying and pipe jointing.

1) The technician shall assist and advise the Contractor in his pipe laying operations and shall instruct construction personnel in proper joint assembly and joint inspection procedures.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Packing

1. Prepare pipe for shipment to:
   a. Afford maximum protection from normal hazards of transportation
   b. Allow pipe to reach project site in an undamaged condition

2. Pipe damaged in shipment shall not be delivered to the project site unless such damaged pipe is properly repaired.

3. After the completed pipe and fittings have been removed from the final cure at the manufacturing plant:
   a. Protect pipe lining from drying by means of plastic end covers banded to the pipe ends.
   b. Maintain covers over the pipe ends at all times until ready to be installed.
   c. Moisture shall be maintained inside the pipe by periodic addition of water as necessary.

4. Pipes shall be carefully supported during shipment and storage.
   a. Pipe, fittings and specials shall be separated so that they do not bear against each other and the whole load shall be securely fastened to prevent movement in transit.
   b. Ship pipe on padded bunks with tie-down straps approximately over stulling.
   c. Store pipe on padded skids, sand or dirt berms, tires or other suitable means to protect the pipe from damage.
   d. Each end and each length of pipe, fitting or special (42-inches and larger) and the middle of each pipe joint shall be internally supported and braced with stulls to maintain a true circular shape.

1) Internal stulls shall consist of timber or steel firmly wedged and secured so that stulls remain in place during storage, shipment and installation.

2) Pipe shall be rotated so that one stall remains vertical during storage, shipment and installation.

3) At a minimum, stulls shall be placed at each end, each quarter point and center.

B. Delivery, Handling, and Storage

1. Once the first shipment of pipe has been delivered to the site, the Engineer and the Contractor shall inspect the pipe’s interior coating for excessive cracking.
a. If excessive cracking is found, exceeding the allowance in AWWA C303, modify shipping procedures to reduce or eliminate cracking.

2. Deliver, handle and store pipe in accordance with the manufacturer's recommendations to protect coating systems.

C. Marking for Identification

1. For each joint of pipe and each fitting, plainly mark on 1 end:
   a. Class for which it is designated
   b. Date of manufacturer
   c. Identification number
   d. Top centerlines shall be marked on all specials.

PART 2 - PRODUCTS

2.1 EQUIPMENT, PRODUCT TYPES, AND MATERIALS

A. Materials

1. General
   a. Pipe shall be manufactured in accordance with the latest revisions of AWWA C303, AWWA M9, as well as the special requirements of this Specification.
   b. All pipe shall meet the requirements of NSF 61.

2. Cement
   a. Cement for use in concrete and mortar shall be Type I or II Portland Cement.

3. Aggregates
   a. Aggregates for concrete lining and coating shall conform to ASTM C33.

4. Sand
   a. Sand used for inside and outside joints shall be of silica base, conforming to ASTM C144.

5. Mixes
   a. Cement Mortar
      1) Cement mortar used for pouring joints shall consist of:
         a) 1 part Portland Cement
         b) 2 parts clean, fine, sharp silica sand
         c) Mixed with water
         d) No manufactured sand shall be permitted.
         e) Exterior joint mortar shall be mixed to the consistency of thick cream.
         f) Interior joint mortar shall be mixed with as little water as possible so that the mortar is very stiff, but workable.
         g) Cement shall be ASTM C150, Type I or Type II.
         h) Sand shall conform to ASTM C144.
2) Cement mortar used for patching shall be mixed as per cement mortar for inside joints.

6. Pipe Ends
   a. The standard pipe end shall include steel joint ring and a continuous solid rubber ring gasket as per AWWA M9.

7. Gaskets
   a. Flange in accordance with AWWA C207.
   b. Provide Gaskets Conforming to the physical and marking requirements specified in ANSI/AWWA C111/A21.11.
      1) All gaskets shall meet or exceed the latest revisions NSF 61.
      2) Rubber gaskets shall be made of vulcanized styrene butadiene rubber SBR, unless otherwise specified in Drawings.
      3) Gaskets shall be free from porous areas, foreign material and other defects that make them unfit for intended use.
      4) Gaskets shall be the size and shape required to provide an adequate compressive force against the plain end and socket after assembly to affect a positive seal under all combinations of joint and gasket tolerances.

B. Performance / Design Criteria
   1. Pipe Design
      a. Pipe shall be designed, manufactured and tested in accordance with the latest revisions of AWWA C303, AWWA M9, as well as the special requirements of this Specification.
      b. Sizes and pressure classes (working pressure) shall be as specified in the Drawings.
      c. For the purposes of pipe design, working pressure plus transient pressure shall be as indicated below.
      d. Pipe design shall be based on trench conditions and design pressure class specified in the Drawings.
      e. Pipe shall be designed according to the methods indicated in AWWA C303 and AWWA M9 for trench construction, using the following parameters:
         1) Unit Weight of Fill (w) = 130 pounds per cubic foot
         2) Live Load = AASHTO H-20 truck for unpaved conditions
         3) Live Load = Cooper E-80 loading for railroad crossings
         4) Trench Depth = As indicated on Drawings
         5) Coefficient \(K_u'\) = 0.150
         6) Trench Width (Bd) as indicated on Drawings
         7) Bedding Conditions = as indicated on Drawings
         8) Pressure Class = 150 psi min. working pressure
         9) Surge Allowance = 100 psi minimum
a) where: Total Pressure (including surge) = 150 psi + 100 psi = 250 psi.

10) Deflection Lag Factor = 1.0
11) Soil Reaction Modulus (E’) < 1,000

f. Pipe design shall provide cathodic protection. The Cathodic protection system shall be designed by a Texas licensed Professional Engineer.

2. Inside Diameter
   a. The inside diameter, of the cement mortar lining shall be the nominal diameter specified, unless otherwise indicated on the Drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General
   1. Install Concrete Pressure Pipe, fittings, specials and appurtenances as required for the proper functioning of the completed pipe line.
   2. Install pipe, fittings, specials and appurtenances as specified herein, as specified in AWWA M9, and in accordance with the pipe manufacturer's recommendations.
   3. Lay pipe to the lines and grades show on the Drawings.
   4. Excavate, embed and backfill trenches in accordance with Geotechnical Report.
   5. At the close of each operating day:
      a. Keep the pipe clean and free of debris, dirt, animals and trash – during and after the laying operation.
      b. Effectively seal the open end of the pipe using a gasketed night cap.

B. Pipe Handling
   1. Haul and distribute pipe fittings at the project site and handle piping with care to avoid damage.
   2. Before lowering into the trench and inspect each joint of pipe and reject or repair any damaged pipe.
   3. Pipe shall be handled at all times with a minimum of 1 wide non-abrasive sling, belts or other equipment designed to prevent damage to the coating or lining.
   4. The equipment shall be kept in such repair that its continued use is not injurious to the coating.
   5. The spacing of pipe supports required to handle the pipe shall be adequate to prevent cracking or damage to the lining or coating.

C. Pipe Jointing
   1. General
      a. Thoroughly clean the bell and spigot rings before laying each joint of pipe by brushing and wiping.
b. If any damage to the protective coating on the metal has occurred, repair the damage before laying the pipe.

c. Lubricate the gasket and the inside surface of the bell with an approved lubricant (flax soap) which will facilitate the telescoping of the joint.

d. Tightly fit together sections of pipe and exercise care to secure true alignment and grade.

e. When a joint of pipe is being laid, place the gasket on the spigot ring and enter the spigot end of the pipe into the bell of the adjoining pipe and force into position.

1) The inside joint space between ends of the pipe sections shall have an opening within the tolerances as recommended by the pipe manufacturer.

f. No "blocking up" of pipe or joints will be permitted, and if the pipe is not uniformly supported or the joint not made up properly, remove the joint and properly prepare the trench.

g. After joining, check the position of the gasket with a feeler gauge.

1) If the gasket is out of position, disassemble the joint and repeat the joint laying procedure.

h. For interior welded joints, complete backfilling before welding.

i. For exterior field-welded joints, provide adequate working room under and beside the pipe.

2. Exterior Joints

a. Make the exterior joint by placing a joint wrapper around the pipe and secure in place with 2 metal straps.

1) The wrapper shall be 9 inches wide for pipe 36-inches and larger, and 7 inches wide for smaller pipe, hemmed on each side.

2) The wrapper shall be fiberglass reinforced or burlap cloth, with lengths encircling the pipe, leaving enough opening between ends to allow the mortar to be poured inside the wrapper into the joint.

3) Fill the joint with mortar from 1 side in 1 continuous operation until it has flowed entirely around the pipe.

4) During the filling of the joint, pat or manipulate the sides of the wrapper to settle the mortar and expel any entrapped air.

5) Leave wrappers in place undisturbed until the mortar has set-up.

3. Interior Joints

a. Upon completion of backfilling of the pipe trench, fill the inside joint recess with a stiff cement mortar/high-strength grout.

b. Prior to placing of mortar/grout, clean out dirt or trash which has collected in the joint and moisten the concrete surfaces of the joint space by spraying or brushing with a wet brush.

c. Ram or pack the stiff mortar/grout into the joint space and take extreme care to insure that no voids remain in the joint space.
d. After the joint has been filled, level the surfaces of the joint mortar/grout with the interior surfaces of the pipe with a steel trowel so that the surface is smooth.

e. Interior joints of pipe smaller than 21-inches shall have the bottom of the bell buttered with grout, prior to inserting the spigot, such that when the spigot is pushed into position it will extrude surplus grout from the joint.

1) The surplus grout shall be struck off flush with the inside of the pipe by pulling a filled burlap bag or an inflated ball through the pipe with a rope.

4. Protection of Exposed Metal

   a. Protect exposed ferrous metal by a minimum of 1 inch coating of cement mortar as previously specified for inside joints, unless otherwise specified in the Drawings.
   b. Exposed large flat surfaces such as flanges, bolts, caulked joints, threaded outlets, closures, etc., shall have coating reinforced with galvanized wire mesh.
   c. Thoroughly clean and wet the surface receiving a cement mortar coating with water just prior to placing the cement mortar coating.
   d. After placing, take care to prevent cement mortar from drying out too rapidly by covering with damp earth or burlap.
   e. Cement mortar coating shall not be applied during freezing weather.

5. Patching

   a. Excessive field-patching of lining or coating shall not be permitted.
   b. Patching of lining or coating will be allowed where area to be repaired does not exceed 100 square inches and has no dimensions greater than 12 inches.
   c. In general, there shall not be more than 1 patch on either the lining or the coating of any 1 joint of pipe.
   d. Wherever necessary to patch the pipe, make patch with cement mortar as previously specified for interior joints.
   e. Do not install patched pipe until the patch has been properly and adequately cured and approved for laying by the City.
   f. Promptly remove rejected pipe from the site.

D. Field Pressure Testing

1. Method 1

   a. Before placing any concrete or earthfill around the conduit or filling the pipe joints, the conduit shall be tested for leaks in the following manner:

      1) The ends of the conduits shall be plugged and a standpipe with a minimum diameter of 2 inches shall be attached to the upstream plug. The conduit shall be braced at each end to prevent slippage. The conduit and the standpipe shall be filled with water. The water level in the standpipe shall be maintained at least 10 feet above the invert of the upstream end of the conduit for at least 2 hours. Any leaks shall be repaired, and the conduit shall be tested again as described. The procedure shall be repeated until the conduit is watertight.

      2) The pipe joins shall show no leakage. Damp spots developing on the surface of the pipe are not considered as leakage.
2. Method 2
   a. Before placing any concrete or earthfill around the conduit or filling the pipe joints, the conduit shall be air tested in accordance with ASTM C 924. The conduit shall be braced on each end to prevent slippage. All end plugs used for the air test shall be capable of resisting the internal pressure and must be securely braced.
   
b. All testing equipment to be used shall be furnished by the contractor and shall be inspected and approved by the engineer. The pressure gauges used shall be graduated to read in increments of 0.1 pounds per square inch and calibrated to provide accuracy within 10 percent plus or minus of the standard gauge. The contractor has the option of prewetting the conduit or line before testing. Any conduit that fails to pass this test must be repaired by a method satisfactory to the engineer. After the repairs are made, the conduit shall be retested until it passes the test requirements.

END OF SECTION  33 11 13
MADE IN THE U.S.A.

AVAILABLE MATERIALS:
- MILD STEEL (NO FINISH) - WGT: 337.3 lbs.
- MILD STEEL (GALVANIZED) - WGT: 337.3 lbs.
- STAINLESS STEEL - WGT: 337.3 lbs.
- ALUMINUM - WGT: 113.9 lbs.

CUSTOM SIZES AVAILABLE
AVAILABLE UPON REQUEST WITH:
- ACCESS PORT
- ANTI-VORTEX PLATES

LPK-6060
60"x60" PEAKED ROOF TRASH RACK

B 173500
Questions received for Project No. 116769R - Dam Reconstruction at Bastrop State Park

Q1. Would it be possible to get a base cadd file?
   A1. CAD files will not be released during bidding.

Q2. Good morning, we are trying to complete the bid bond information and our surety is asking if there is a bid bond page provided by your department. I did not see one in the proposal. If there is not one provided, is it ok to use a standard bid bond form from our surety?
   A2. TPWD does not have a bid security form. The Surety will need to provide this form that meets our requirements.

Q3. Instructions to Offerors, section 12 Contractor Qualifications states minimum experience requirement of three (3) projects within the last 5 years. In Submittal Guidelines and Requirements, Section 3 – Requirements for Competitive Sealed proposals, item 4 Offeror’s Qualifications and References state submit three (3) to five (5) projects completed or at least 80% complete, within the last ten (10) years. Granite requests that the required experience requirements in the instructions to Offerors, section 12 be consistent with the Offeror’s qualifications section requiring the minimum three (3) project completed or at least 80% complete within the last ten (10) years.
   A3. The Instruction to Offerors Section 12 Contractor’s Qualification has CHANGED to the following: Contractor must show evidence of a minimum of three (3) Successful Contractions projects completed or at least 80% complete, that are similar to this project (as judge by owner) to be eligible for award of this contract. This experience must have occurred within the past ten (10) years, measured backwards from the issue date of this solicitation.

Q4. In the Contractor’s Price Proposal on page 5 of 9, it states the lowest Proposal price will receive the total of 40% points assigned to Criteria One, Item 6 of the CSP. If a Contractor’s price is not the lowest, what is the mathematical formula to determine the number of points that contractor will receive for the purposes of best value award?
   A4. Price Score = (Lowest Price / Price of Response Being Evaluated) x Maximum No of Available Points

Q5. Would TPWD consider excluding any or all of the SUBMITTAL GUIDELINES AND REQUIREMENTS Items 1, 2, 3, 4.4 (client letters of reference), and 5.3 (11x17 schedule pages) of Section 3 from the 20-page limitation requirement?
   A5. Refer to Answer 7. However, the 20 pages limitation of Section 3 has CHANGED to 40 pages limitation
Q6. Does Section 12 Contractor Qualifications of INSTRUCTIONS TO OFFERORS require a separate response from Item 4.1 of Section 3? If so, where does the information for Section 12 go in the CSP and is it part of the 20-page maximum limitation?
   A6. Refer to Answer 3 and 5.

Q7. In lieu of Item 4.4 regarding the letters of reference from clients, would TPWD allow the Offeror to use US Army Corps of Engineers (USACE) Final Contractor Performance Assessment Reports (CPARs) or previously completed USACE Past Performance Questionnaires from clients?
   A7. Letters of Reference are required. However, you may provide more information to support your reference.

Q8. Plan sheet 06 of 150 - the Construction Staging Area's 01, 02, and 03 - What is the Pay Item for this Work?
   A8. Pay item for contractor utilizing any or all construction staging areas is Subsidiary to Pay Item 1 - Mobilization. Contractor price shall include all work and materials for these areas to meet the requirements outlined in the contract documents, specifications and plans. Note, any materials required for the individual contractor’s work plan, as described in Site Utilization and Remediation notes Sheet 3, are in addition to the quantities identified on the price proposal. Reference revised Contractor’s Price Proposal Schedule.

Q9. Plan sheet 22 of 150 Demolition Plan. - What Pay Item's for doing all of this work?

Q10. Pay Item 8 Downstream ROW Clearing 2 AC - What Plan Sheet page number that shows this description of work and boundary?
    A10. Pay Item has been combined with Pay Item 2 - Preparation of Right-of-Way. Price shall include equipment and materials to prepare the right-of-way within the limits of construction (LOC) shown on the plans in accordance with the contract documents, specifications and plans. Reference revised Contractor’s Price Proposal Schedule.

Q11. Pay Item 25 Tree & Stump Removal (Clearing and Grubbing) 1 LS - Is this part of Pay Item 8 and paid by the AC instead by LS? Does this Item include Upstream & Downstream Areas as well?
    A11. All tree removal is subsidiary to Pay Item 2 - Preparation of Right-of-Way, within the limits of construction (LOC) shown on the plans in accordance with the contract documents, specifications and plans. Reference revised Contractor’s Price Proposal Schedule.
Q12. Pay Item 37: Embankment (Type A) = 9155 CY (Also Pay Items 44 and 58) - What Specification and page number can this description of "Type A" material be found and defined? Is this Material referred to on Plan Sheet 64 of 150 as Structural Fill?
   A12. All embankment materials are defined in specification 35 73 13 Embankment for Earth Dams, Part 2 - Products, 2.1 Materials. Pay Item revised to clarify. Reference revised Contractor’s Price Proposal Schedule.

Q13. Pay Item 37 Embankment (Type A) 9155 CY - Is this material imported from Off-Site Borrow of Bastrop State Park?
   A13. Reference plan sheet 61 for borrow source locations within the limits of construction and boring log locations. Contractor may utilize materials from identified borrow site or from other approved offsite borrow locations. Reference specification 31 00 00 Earthwork, 3.3 Selection of Borrow. Reference Geotechnical reports for boring logs. Pay Item revised to clarify, Reference revised Contractor’s Price Proposal Schedule.

Q14. Pay Item 2 Preparing the ROW = 3 AC - What plan sheet shows this description and work to be done?
   A14. Pay Item 2 - Preparation of Right-of-Way, has been revised. Price shall include equipment and materials to prepare the right-of-way within the limits of construction (LOC) shown on the plans, reference plan sheet 22, and in accordance with the contract documents, specifications and plans. Reference revised Contractor’s Price Proposal Schedule.

Q15. Pay Item 37 Embankment (Type A) - What degree of compaction effort is required - ASTM D698 Standard or ASTM D1557 Modified?
   A15. All embankment materials, structural fill, impervious/clay embankment and filter drainage are defined in specification 35 73 13 Embankment for Earth Dams and in accordance ASTM D698 per geotechnical reports. Reference revised Contractor’s Price Proposal Schedule.

Q16. Pay Item 38 Clay Embankment Materials - What degree of compaction effort is required - ASTM D698 Standard or ASTM D1557 Modified?
   A16. All embankment materials, structural fill, impervious/clay embankment and filter drainage are defined in specification 35 73 13 Embankment for Earth Dams and in accordance ASTM D698 per geotechnical reports. Reference revised Contractor’s Price Proposal Schedule.

Q17. Subgrade Cut and Fill Prep. - What degree of compaction effort is required - ASTM D698 Standard or ASTM D1557 Modified?
   A17. Reference 35 73 13 Embankment for Earth Dams, 3.2 Preparation of Foundation, and 31 00 00 Earthwork, 3.14 Subgrade preparation for proof rolling requirements. All embankment materials, structural fill, impervious/clay embankment and filter drainage are defined in specification 35 73 13 Embankment for Earth Dams and in accordance ASTM D698 per geotechnical reports. Reference revised Contractor’s Price Proposal Schedule.
Q18. Pay Items 24, 43 & 57 Topsoil SY - Is this material available on-site or will it be imported from off-site?

A18. Reference Specification 31 00 00 Earthwork, topsoil is defined as material obtained from offsite areas or excavations meeting the project criteria. No additional pay for stripping, hauling, stockpile, placing, amending existing soils or importing topsoil.

Q19. Section 01000 - Special Conditions, 2.02- Site Operations – Please confirm security to be provided can be in passive state, i.e. fencing and gates

A19. Security for the staging and stocking piling areas shall be the responsibility of the contractor. The plans identify locations where hard fencing shall be placed to protect sensitive resources areas to prevent construction crew access.

Q20. Insurance Review Question - Section 5.2 of the Uniform General Conditions, 5.2.2.1.5 Special Form Builder’s Risk Insurance, part 5.2.2.1.5.3 states that losses are to be adjusted and made payable to the Owner. The power to adjust and settle claims should be maintained by the first named insured and the party procuring the Builders’ Risk insurance. Since the Contractor will be required to carry the insurance and have the risk of loss, the responsibility to settle claims should be given to the Contractor. Please amend as follows: 5.2.2.1.5.3 Loss, if any, shall be adjusted with and made payable to Contractor Owner as trustee for the insureds as their interests may appear. Owner shall be named as loss payee]

A20. Denied. Offerors shall comply with all requirement of the contract.

Q21. Insurance Review Question - Section 5.2 of the Uniform General Conditions, 5.2.2.1.5 Special Form Builder’s Risk Insurance, part 5.2.2.1.5.7 requires that coverage must be provided for properties located in flood prone areas with limits specified by the Owner. Builders’ Risk flood limits are set by industry standards and requiring the Contractor to meet limits prescribed by the Owner is onerous for Contractor. Please amend as follows: 5.2.2.1.5.7 For those properties located in flood prone areas, flood insurance coverage must be provided with limits acceptable by industry standards, specified by Owner. The limits will be provided to Owner for approval.

A21. Denied. Offerors shall comply with all requirement of the contract.

Q22. Insurance Review Question - The Uniform General Conditions state that Builders’ Risk insurance is required, with an amount equal to the initial Contract Price. Please confirm that is acceptable to have sub-limits for the perils of Earthquake and Flood, as this is common practice in the insurance market.

A22. Prior to submitting a response, Offerors should confirm with its insurance carrier ability to provide required insurance coverage. The Project location is not in a Tier 1 or 2 windstorm area. Furthermore, the Project location is not in a flood area.
Q23. Drawing 70 of 150, Trash Rack Detail states to "Reference Specifications Appendix B," please provide specification.
A23. Reference Manufacturer’s information included with this response.

Q24. Plan Sheets 37 thru 45 Paving Cross Sections - Can the sections show the daylight limits of cut & fill to calculate the quantities of existing & proposed grade lines? Most sections do not show closure.
A24. Cross sections through sections of Park Road 1A with closure shown on Dam Cross Sections on plan sheets 81-89. For proposed and existing grades, reference Dam Grading Plan sheet 65, Dam Excavation Plan sheet 66, and Parking Lot Grading Plan sheet 34.

Q25. Drawing 70 of 150, Slide Gate Details states, "See Construction Specifications, Appendix B" the specifications contain product data for multiple types of vertical lift gates, please provide specifications for type of gate, configuration, materials, actuator type, etc.
A25. Bid gate type SS-251-1-T-18x18-20 with hand crank actuator.

Q26. Drawing 23 of 150 and 101 of 150 show concrete riprap at the top of the spillway, please provide limits for this concrete riprap.
A26. Reference Dam Typical Section on plan sheet 64, and Dam Grading Plan sheet 65. Concrete riprap limits is the proposed 6:1 slope between the back of curb and the stepped RCC face. Proposed 6:1 slope above the final RCC lift as shown shall be concrete riprap as shown on stilling basin layout plan sheet 101 section a-a.

Q27. With regards to erosion control and turf establishment would the Owner be willing to consider nurse crop as addition to seed mix? A non-invasive species would be used as the nurse crop.
A27. TPWD will consider substitutions equivalents or equals after award of contract. Contractor shall bid as outlined in the contract documents, specification, and plans.

Q28. Is any part of the project considered to be under the jurisdiction of the USACE 404 or 408 Programs?
A28. Yes, the project is being permitted through the USACE under a Letter of Permit 1. Requirements under the permit are outlined in the contract documents, specifications, and plans. Reference General Notes, plan sheet 2 for USFWS Endangered Species Conditions, Historical Elements and Sensitive Resources Areas, etc. Jurisdictional Waters of the United States (WOUS) are shown on the plans.

Q29. Would access to the project site and construction be halted due to any closure of Bastrop State Park for the Houston Toad mating season? Then if construction is halted due to the Houston Toad mating season, would the Toad Fence need to be removed and re-installed again?
A29. Reference General Notes on plan sheet 2 for USFWS Endangered Species Conditions, Note 2b for work stoppages. Toad barrier fence to remain in place and
maintained for the duration of construction. Reference General Notes for USFWS Endangered Species Conditions, Note 1.

Q30. Please provide specifications for pay item 36, 60” B-303 Bar Wrapped Concrete Cylinder Pipe (AWWA C303).

A30. Reference specification 33 11 13 Concrete Pressure Pipe, Bar-Wrapped, Steel Cylinder Type include with this response.

Q31. There is a bid item for Downstream ROW Clearing in the quantity of 2 acres. I cannot find on the plans where this area is located. Can this area be shown on the plans?

A31. Pay Item has been combined with Pay Item 2 Preparation of Right-of-Way. Price shall include equipment and materials to prepare the right-of-way within the limits of construction (LOC) shown on the plans in accordance with the contract documents, specifications and plans. Reference revised Contractor’s Price Proposal Schedule.

Q32. In the Option 3 Geotechnical report dated September 7, 2018 it discussed the fill material properties to be utilized in the Dam construction and calls for a structural fill with a PI from 0 to 10. In supplemental letter #3 additional borings were done in the lake bottom and the report states that the materials should be acceptable for use in dam construction but a final determination would be made in the final geotechnical report. In section 31 00 00 it states what satisfactory and unsatisfactory materials are. It goes on to state that select borrow material is to meet the requirements and conditions of the particular fill or embankment for which it is to be used and that satisfactory materials are to be used as embankment. In Section 35 73 13 it states that “satisfactory materials or processes are in full compliance with these specifications”. In the plans it calls for structural fill in the dam with some areas receiving a clay plug. Bid item 37 calls for Embankment (Type A) which is a granular material free from vegetation or other objectionable material and has a PI less than or equal to 15. Can you provide clarification on which types of embankment are required for the various fill areas on the project.

A32. Specification 35 73 13 Embankment for Earth Dams governs material within the envelope of dam as defined by the typical section on sheet 64, Specification 31 00 00 Earthwork governs material for roadway and grading locations. Reference revised Contractor’s Price Proposal Schedule.

Q33. On Sheet 79 of 150, what is the vertical dimension required from finished grade to the top of the Lock Post Cap?

A33. Reference individual Gate Plans and Elevations (plan sheets 76-78) for the vertical dimension and finished elevations of piers and post. Minimum vertical dimension from finished grade to the top of the lock post cap for gate clearance is 4’-0” (LT).

Q34. On Sheets 76, 77 and 78 of 150, Note 2. Finish is to be powder coated, per specification...what is the specification for powder coating?

A34. Reference specification 05 05 13 Shop-Applied Coatings for Metal included with this response.
Q35. For pay item 11, Concrete Retaining Walls, Integral Color, how is the quantity measured? Is it only the stem of the retaining wall, or is to include the square footage of the footing also?

   A35. Reference retaining wall sections on plan sheet 96, Vertical face of retaining wall area as measured from the profile from T.O.W to T.O.F.

Q36. With regards to Specification Section 01 50 00, Item 3.4, Paragraph C.1.a. - Does the stated dewatering requirements also apply to the construction of the slurry wall?

   A36. Reference specification 02 35 27 Soil-Bentonite Slurry Trench, sections 3.2 working surface, and 3.4.1 Slurry placement for groundwater requirements/performance during excavation and placement of slurry wall.

Q37. Is the sacrificial concrete to be removed for the downstream face of an RCC lift incidental to the RCC concrete quantity in Bid Item 15?

   A37. Yes, quantity is for final compacted in place volume.

Q38. Will cross sections for the Parking Lot Ramp (Sta 0+00 to Sta 1+30.32), Parking Lot Loop Road (Sta 0+00 to Sta 2+73.36) be provided?

   A38. No, reference Parking Lot Grading Plan sheet 34 for proposed grades.

Q39. Please provide details for Bid Item 9 Concrete Spillway – limits, reinforcing, jointing, etc…