

AMENDMENT #1
June 3, 2024
Invitation for Bids (IFB) Number
PCCD-24-LPCW28Rehab-01, 5/16/24
Issued by
Plum Creek Conservation District
Lockhart, Texas

The above numbered IFB hereby is amended as set forth below.

PURPOSE OF AMENDMENT

1. To transmit pen-and-ink changes to the IFB drawings and specifications, and to provide meeting minutes (including Questions and Answers) and an attendance list for the 5/30/24 Pre-bid Conference/Site Showing.
2. To remind bidders that oral explanations or instructions given before the award of the contract will not be binding. See PART I, Subpart B, Instructions to Bidders, Section 6.

Offerors **must acknowledge receipt of this Amendment no later than** the hour and date specified in the IFB (see IFB Amendment #1 for change in this date/time) for receipt of sealed bids by one of the following methods:

- (1) Make appropriate notations on Exhibit A, Offer form (PART I, Subpart C, page GP-8).
- (2) Complete and return form below. Form must be mailed or hand-carried to the address designated for receipt of bids, and be made to the attention of Daniel Meyer, Contracting Officer, clearly noting "Acknowledgment of Receipt of Amendment No. 1, IFB No. PCCD-24-LPCW28Rehab-01" on the envelope. Fax, electronic, or telegraphic acknowledgments of receipt are not allowed.

ACKNOWLEDGMENT OF RECEIPT

Amendment No. 1 (6-3-2024)
IFB PCCD-24-LPCW28Rehab-01 (Site 28 Rehabilitation)

Bidder's Signature: _____

Bidder's Name: _____

Bidder's Title: _____

Date Signed: _____

Company Name: _____

PEN-AND-INK CHANGES

PART IV – CONSTRUCTION & MATERIAL SPECIFICATIONS

Page ii, Item 5

ADD the following note to Item 5:

“NOTE: Contract performance time in the Invitation for Bids package with holidays included is 837 calendar days.”

Construction Specification 2 – Clearing and Grubbing

- In Section 7, paragraph 4, change the first sentence to READ:
“Locations for buried materials shall be **approved by the Engineer.**”
- DELETE wording in Section 7.a.(4) and REPLACE it with the following:
“Existing brush piles and downed debris within areas to be cleared and grubbed shall be disposed as specified above.”

Construction Specification 3 – Structure Removal, Section 7.

- Renumber Section 7.b.(5) to be Section 7.b.(6)
- ADD Section 7.b.(5) to read as follows:
“This item shall include removal of the rock riprap located within the existing plunge basin area to allow for excavation and earthfill operations for installation of the new impact basin. Removal of the rock riprap shall not result in erosion in the event the existing principal spillway is used for dewatering. Salvage of the rock riprap shall be permitted upon approval of the Contracting Officer and under a signed release of materials between the Contractor and Sponsor.”

Construction Specification 6 – Seeding, Sprigging, and Mulching

- In Section 7.a., delete “(10)” that contains no information.

Construction Specification 31 – Concrete for Major Structures, Section 25

- In Section 25 ADD the following paragraph prior to subsection a.:
“In Section 20, Concrete patching, repair or replacement, all patching and repair reference documents shall include the U.S. Department of the Interior Bureau of Reclamation “Guide to Concrete Repair”, Second Edition, August 2015 or later revision and other documents deemed appropriate as approved by the Engineer.”
- EDIT wording in Section 25 a.(3) to read as follows.
“In addition to the finishing of all formed concrete surfaces and slabs in conformance with Section 17 of this specification, all concrete surfaces that will be exposed to air and water, shall be finished by a complete carborundum stone rubbing in accordance with the latest revision of ACI 301 to establish a smooth-rubbed surface, followed by treatment with a heavy duty, cement-based coating such as “MasterSeal 581” manufactured by Master Builder Solutions. A product of equal quality may be used. The coating material to be used shall be approved by the Engineer.”

PART V – DRAWING NO. TX-EN-0781

- **Sheet 3** – STRIKE/OMIT the elevation shown for REV-BM1G-09-14-2021 in the table entitled “BENCHMARKS FOR HORIZONTAL CONTROL” and ADD the following note:
 - “VERTICAL CONTROL FOR CONSTRUCTION SHALL ORIGINATE FROM THE EXISTING CONCRETE RISER CREST ELEVATION OF 461.23 (NAVD88) AS SURVEYED ON APRIL 24, 2024. HORIZONTAL CONTROL SHALL ORIGINATE FROM THE NORTHING AND EASTING COORDINATES OF THE BENCHMARKS INDICATED.”
- **Sheet 3 Scale in Feet** – DELETE numbers shown on the scale [50 0 50 100]. ADD the following note near the scale:
 - “**NOTE: 1 Inch = 400 Feet**”
- **Sheet 40** – Revise NOTE 3 beneath the Combined Impact Basin Safety Fence B.O.M. table to read as follows:
 - “NON-SHRINK GROUT TO BE APPLIED IF AND AS DIRECTED BY THE ENGINEER FOR FILLING IN IRREGULARITIES ON THE CONCRETE SURFACE, ENSURING A FLUSH MOUNTED BASE PLATE WITH INTIMATE CONTACT WITH THE CONCRETE PRIOR TO ANCHORING.”

DESIGNATIONS (Items Not Marked or Staked)

The drawings and specs state various items will be designated or marked at the time of the site showing. Due to time constraints, site showing attendees were advised that these items will be designated in writing in IFB Amd. 1 and will not be marked prior to the bid opening. These designations are as follows:

Final Locations [Drawing Sheet 2, General Note 4]

Final location of site access, access road, campsite, stockpile areas (3), waste area (1), and borrow area (1) are the locations as shown on the 8/3/23 drawings.

Existing Fence To Be Removed [CSpec-3.7.a.(2)]

Actual limits of existing fence to be removed is as marked on the drawings as — R — R —.

Actual Limits of Clearing and Grubbing [CSpec-2.7.a.(3)]

See Construction Spec 2 that states areas to be cleared and grubbed include stockpile areas, campsite, waste area, borrow area, and site access/access road. Actual limits of these areas are as designated below.

Stockpile Areas (3). Three stockpile areas as shown on Drawing Sheet 4 (8/3/23).

Campsite. As shown on Drawing Sheet 4 (8/3/23).

Waste and Borrow Area (1 each). As shown on Drawing Sheet 4 (8/3/23).

Site Access. As shown on Drawing Sheet 4 (8/3/23).

QUESTIONS AND ANSWERS 5/30/24

Q: If work is suspended as sprigging date has expired, will it be suspended indefinitely?

A: No, see Part II, Article 40 (Vegetation Delay Due to Prescribed Vegetation Dates). Resume order will be issued on next workday that sprigging is allowed per CSpec-6.

Q: When will IFB Amendment #1 be published?

A: We hope it will be online by 6/4/24; otherwise shortly thereafter.

Q: Does the contract allow for a change order if cost of materials increases?

A: No, the contract does not have any provisions for price increases.

Q: Is the contractor responsible to obtain an entrance permit.

A: See Part II, Article 11. It is the contractor's responsibility to determine if a permit is required and to do so if it is.

Q: Will you delay issuing the Notice to Proceed if there is a delay in obtaining a permit?

A: If there is a legitimate delay, PCCD would consider it.

Q: Can you extend the Bid Opening date?

A: No.

Q: Have all funds been secured to allow the project to proceed providing the lowest responsive and responsible bid is within the advertised bid estimate range of \$9-13 million?

A: There are sufficient PCCD and Federal funds available to cover the Engineer's Estimate which is within the price range. There are sufficient State funds to cover 99.7% of the Estimate. PCCD anticipates additional funding for a "reasonable" bid price is possible but could take additional time to secure depending on the amount needed.

Q: Does the landowner have any problem if we drain the reservoir completely?

A: PCCD has authority to do this if necessary for rehab construction purposes.

Q: Is there any prohibition to completely draining the reservoir?

A: None that we are aware of.

Q: Can you recommend any sprigging suppliers?

A: Ed Jackson 254-722-0237 might be a source for sprigs or information.

Q: Who are the landowners at Site 28 and the RV park (Lake Falling Star)?

A: See attached map showing landowners in and around Site 28.

Q: Where in the plans are the Borrow and Waste Areas found?

A: See Sheet 1 for legend and Sheet 4 for locations.

Q: Are Stockpile areas on Sheet 4 Waste areas?

A: No, none of the three Stockpile areas are Waste areas.

Q: Will any adjustments to Borrow Area be allowed?

A: We do not anticipate a need to adjust the Borrow Area at this time.

Q: Will the design CAD files be made available pre or post award?

A: No.

Q: Is a licensed RPLS required to perform all surveying for progress payments?

A: The CO will approve all survey personnel (RPLS and other). If the contractor has a non-RPLS person qualified to do progress payment surveys, that would be allowed."

Q: Is this a clean cut fill project?

A: There is a Borrow Area and a Waste Area shown on the plans on Sheet 4. See the plans and specifications details of work.

Q: Does Quality Control need to be third party?

A: No. Construction Spec 94 requirements will be reviewed to determine if proposed QC personnel meet the requirements of the contract, and performance of approved personnel will be monitored to ensure compliance.

Q: Are load counts allowed to be used for progress payments?

A: No.

Q: Is the existing top of dam elevation being increased?

A: Yes, see typical section on Sheet 5 of the plans for typical excavation and fill requirements of the dam.

Q: Do trees need to be cleared in the campsite?

A: Yes, however, see Construction Spec 2, Section 7.a.(2).

Q: Will the contractor have to deal with cattle? Is the contractor responsible for protecting their work, specifically from cattle?

A: See Construction Spec 8, Section 4.a.(2)(i).

Q: Will debris within the campsite have to be removed?

A: Yes.

Q: Where is the new pipe being installed?

A: See Sheet 1 Index for where to find this information.

Q: Is the earthen spillway crest changing?

A: See Right and Left Auxiliary Spillway Sections on plan Sheets 11-16.

Q: Do trees near the right auxiliary spillway need to be removed?

A: The drawings denote trees to be removed in and near the spillway. If any other trees are in the way of construction, they should be removed to facilitate construction. If any trees are close but do not interfere with construction, then reasonable measures should be taken to save them.

Q: Will the contractor be responsible to remove the trailer and some hay bales along the existing access road that are in the way of construction?

A: No, PCCD will work with the landowner to relocate the trailer and ensure that hay bales do not interfere with construction operations.

5/30/2024 SITE SHOWING / PRE-BID CONFERENCE MINUTES

Note: Some items contained in the IFB were pointed out and are not included in these meeting minutes for purpose of brevity. However, this Amendment No. 1 contains information necessary for bidders to submit bids and all information where the lack thereof would be prejudicial to uninformed bidders.

WELCOME / INTRODUCTIONS

The Contracting Local Organization for this project is Plum Creek Conservation District (PCCD), Lockhart, TX. The Contracting Officer (CO) for this project will be Daniel Meyer (PCCD Executive Manager) and the Alternate CO will be Alan Burklund (PCCD Project Manager). USDA-NRCS will provide a full time Inspector (Tony Barley) and a Project Engineer (Joe Forrest). Jean Ann Maynard will serve as contracting consultant to the PCCD for the project. Project plans and specifications were prepared and sealed by NRCS. The project is receiving funds from the USDA-Natural Resources Conservation Service, TX State Soil and Water Conservation Board, and PCCD. A list of attendees is attached.

The conference commenced at 9:30 a.m., and Daniel Meyer welcomed attendees, made introductions, and provided a brief history of the project. Questions and Answers from the conference and site visit are included in this Amendment #1.

ADMINISTRATIVE PRESENTATION

This material was presented by Jean Ann Maynard. Administrative matters not contained in the IFB along with items in the IFB that were emphasized are as follows:

General Information

Sign-In Sheet. Be sure you listed complete information on how to contact you—be sure to include your EMAIL address.

The IFB was published on 5/16/24. Printed copies of the bid documents are not being distributed. If you want a copy of the Invitation for Bids (IFB) package, any future amendments to it, and the Plan Holder Registration Form, you must download the files from the PCCD website as stated in the Bid Notice. Also, there is a supply of blank registration forms here today if you would like register as a planholder and have not done so yet.

Amendment No. 1 will be issued after this Site Showing. It will include today's meeting minutes, all of the questions/answers, an attendance list, and any changes that will be made to the original bid package. All registered planholders will be advised by email when it is available online. In order to receive notification, you must submit a Plan Holder Registration Form. **Very important to register.** No hard copies of any Amendments will be mailed or emailed – you will need to download them from the PCCD website.

Reminder: You must submit your acknowledgment of receipt of EACH Amendment (either on the Amendment cover sheet form or on bid form, Offer, Exhibit A). Failure to acknowledge receipt of an amendment may result in rejection of a sealed bid.

Performance Time (PT). The PT of 837 calendar days was computed to include 20 calendar days move-in time. PT is based on working the maximum allowed workweek of 60 hours per week. It also includes non-workdays for Sundays and holidays (including Thanksgiving and Winter Breaks). Additional days will be added during construction for eligible weather delays and any change orders that warrant more time, as needed. PT begins the day after receipt of Notice to Proceed.

Sealed Bids are DUE (and will be publicly opened).

- (a) 10:00 AM, Wednesday, June 12
- (b) Must hand carry or mail. No Fax or Telegraphic bids are allowed.
- (c) NOTE: Deliver or mail bid **to the PCCD** office (Attn: Daniel Meyer).

Engineer's Cost Estimate. This will NOT be disclosed until after bids have been opened.

Estimated Price Range: *between \$9,000,000 and \$13,000,000*

IFB/Contract Terms & Conditions. As a local contract, various requirements from Texas codes and statutes govern the basic contract. However, due to Federal funding, there are also some Federal clauses and requirements that aren't normally found in a local contract.

Instructions to Bidders (PART I – General Provisions, Subpart B)

Encouraged to ***carefully read.***

Section 2 – Conditions Affecting the Work. To view site (other than today) you need to make an appointment with Daniel Meyer at PCCD office and he or an authorized person must escort you to the site. Note that no digging or taking of core samples will be allowed.

Section 3 – Bid Must Contain (Original + 1 copy) ***SEE Part I, Subpart C, Bid Forms***

Exhibit A - Offer. Sign in ink (must have legal Authority to contractually bind the company).

Exhibit B – Bid Schedule. Offer must be valid for minimum of **45 days**. Include your Unique Entity ID Number (can obtain one at SAM.gov website).

Exhibit C. References.

Exhibit D – Bid Bond

Bid Guarantee: 5% of TOTAL bid price.

Certified or cashier's check (from responsible TX bank). --- OR ---

Bid bond. (1) Must use Exhibit D form (original + 1 copy). (2) Must meet all Bid Bond Requirements for surety as stated in Section 8. READ THIS CAREFULLY. NOTE surety must be U.S. Treasury listed.

Exhibit E – Bidder Certifications. (1) Three sections you need to "circle" appropriate answer and write in surety information on one. (2) Certain non-Texas resident bidders must provide a Certificate of Authority from TX Secretary of State to transact business in Texas

Section 4 – Preparation of Bid. IFB documents and Plan Holder Registration Form must be obtained using the PCCD website as outlined in the Public Bid Notice. Printed copies of the IFB package are not available. The official printed hard copy shall take precedence over an electronic media copy. This official file hard copy may be viewed at the PCCD office.

Submit offer in DUPLICATE (original + 1 copy of all documents).

Bidders are entitled to EXCLUDE exempted taxes in bid price. Contractor will be performing a contract for an exempt organization. The PCCD will issue an Affidavit to the Contractor. Contractor must issue a Tax Exempt Certificate to each supplier. Contractor is responsible to know and follow all Texas Codes regarding this. [Details in Part II, General Conditions, Article 29]

Bid Schedule (Exhibit B). One award will be made for the Total Bid Items. Failure to price each item in the Bid Schedule is a basis to reject bid.

Section 6 – Explanation to Bidders / Inquiries. NO verbal explanations or instructions given before award of the contract will be binding. ALL questions regarding the meaning or interpretation of any bid document must be submitted IN WRITING to Daniel Meyer (via Email or Fax is allowed). The deadline to submit written questions is **noon on June 5**. If the answer requires interpretation of a bid document, it will be given in writing to all planholders via an Amendment to the IFB. Please send all inquiries through Daniel Meyer and do not contact Engineer Brannon Sledge directly.

Section 8 – Bid Bond Requirements. All bids require a bid guarantee in the amount of not less than 5% of Total Bid Price. Bonds must be on the form provided in the bid package.

Section 11 and 12 – Qualification/Disqualification of Bidders. Carefully note these requirements. In order to be awarded the contract, the low bid must meet two requirements. First, bid documents are reviewed to determine if the bid is "responsive"—meets essential elements of the IFB requirements. Then, the "responsibility" of the bidder is determined. Technical and financial references are carefully checked to ensure bidder is qualified, etc. These clauses list what will be considered in determining the "responsibility" of the bidder.

Section 20 – Records. This lists documents available at the PCCD office for viewing by interested parties. There is a large set of drawings along with a printed copy if the IFB package, a copy of the 1963 as-built plans, 2 Soil Mechanics Reports, and 2 Geologic Investigation Reports. All of these documents also are available to view/download at the PCCD website. NOTE that the as-built plans and 4 Reports are for reference purposes and they will not be included in the final contract.

Anticipated Schedule / Contracting Procedure (subject to change as needed)

NOTE: Per change in Bid Opening DATE, all estimated dates below will likely be pushed forward 1 week.

Bid Opening (June 12): Publicly open sealed bids. Declare apparent low bidder and meet with their representative.

Issue Notice of Award. There may be a delay if additional Federal or State funding is needed (possibly up to 45 days). The PCCD Board will meet on June 18 to review all bids and review award recommendations from NRCS and me. Upon award you will have 5 workdays to submit your 1st post-award documents [See Part III – Supplemental Conditions, Article 4 for a LIST]. You are encouraged to

review these now and be prepared to submit on time (or your bid security could be forfeited and the PCCD would move on to 2nd low bid).

2nd Post-award Documents. These probably will be requested at same time as Notice of Award and will be due about 3 weeks after award (such as construction schedule, safety plan, etc.).

The Preconstruction Conference will be held within a week after 2nd documents are due. If everything is in order, the Notice to Proceed will be issued within a week.

General Conditions (PART II)

Exceeding Time in Contract [Article 5]. If you do not complete work within performance time and it is deemed in best interest of PCCD to allow Contractor to complete work (vs. terminate for default), PCCD will assess actual damages. NO liquidated damages clause.

Actual damages will not be assessed for lost revenue and/or taxes. Actual damages will be based upon the additional costs incurred by the Contracting Local Organization (CLO), the Texas State Soil and Water Conservation Board, and USDA-Natural Resources Conservation Service Engineer/Inspector resulting from the Contractor not completing the work within the allowable performance period. These costs include but are not limited to personnel costs (Inspector, Project Engineer, Contracting Officer and related personnel), travel costs (lodging, per diem, mileage, etc.), additional supplies, etc. Your bonding company can contact PCCD if it has additional questions about this clause.

The clause also allows for an extension of performance time (without terminating the Contractor's right to proceed or charging Contractor with actual damages) if a delay in completion of the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Note that TIME only is allowed (no costs are allowed) for an excusable delay.

Payments / Invoicing Requirements [Article 7]. Progress payments will be made monthly. Per Texas Water Code, PCCD shall retain 10 percent of progress payments for the first 50% of the work until final completion and acceptance of the work without any interest due to the Contractor. Please note that the payment due date for PCCD is within 45 days of receipt of "proper" invoice. They will strive to pay sooner if possible.

Per paragraph (h), Contractor and Subcontractors must follow TX Government Code 2251 rules for paying others for goods, services, etc. related to performing the work.

Superintendence [Article 10]. Must have a full-time superintendent acceptable to CO **at all times**. You will be asked to propose an Alternate superintendent for approval so that you have a backup in place to serve in the absence of the regular superintendent.

Permits and Responsibilities [Article 11] and Other Contracts [Article 13]. The Contractor is responsible to determine all Federal, State, and municipal laws, codes and regulations that apply to this project and comply with them. Also, Contractor is required to obtain all necessary licenses and permits at own expense. The Contractor is responsible for all materials delivered and work performed until completion and acceptance of the entire construction work.

Real Property Rights [Article 16]. PCCD has acquired all landrights to perform the work and the Construction Work Limits are shown on the drawings.

Contractor shall obtain owner's advance written approval if he/she plans to enter, remove, or otherwise make use of adjacent property, roads, utility lines, fences, and other improvements not included within the real property rights provided by the Contracting Local Organization. A copy of the written approval must be submitted to the Contracting Officer. Any associated costs are Contractor's responsibility. Any changes to items already designated or specified in the contract (e.g., site entrance, campsite, etc.) must be approved by the Contracting Officer at his sole discretion.

Water [Article 19]. Contractor is responsible to provide and maintain at own expense an adequate supply of water needed to perform the work. Contractor must locate and arrange for adequate water source(s) and obtain any required permits to take/use water. A copy of those permits will need to be submitted to the Contracting Local Organization.

Workweek - Construction Schedule [Article 20]. Requires written schedule prior to commencement of work (CO must approve). Maximum Work Week: Monday – Saturday (up to 11 hours per day) not to exceed 60 hours per week. Work may be performed during daylight hours only.

Holidays: Project will be shut down (and days are included in the performance time) for dates shown in this clause. If performance time is extended beyond 837 calendar days, this article states additional holidays/breaks when no work may be performed, and those days will be added to the performance time by contract modification.

Subcontractors [Article 21]. All require CO written approval (prior to signing a subcontract).

Surveys [Article 22], Shop Drawings [Article 30], and Layout of Work [Article 35]. Some general information. Joe Forrest will discuss contract requirements more thoroughly in his technical presentation.

Suspension of Work [Article 23]. Contractor is eligible to recover damages for any unreasonable delays as specified in this clause. Includes additional performance time and damage costs (excluding profit).

Weather [Article 26]. PT in the IFB does not include any adverse weather delays. PT will be extended if warranted by weather or its effects. Allows TIME only (not costs or damages).

Quantity Variations [Article 28]. 25% clause for estimated quantities in bid schedule (as modified). Variations within 25% are paid at the bid price and there is no adjustment in performance time. If variation exceeds 25% (over or under), the contract price/time is equitably adjusted for the quantity that exceeds 25% (over or under). *[This differs from Article 3 regarding "Changes". If any new work is added to the contract (or any work is deleted), this is not a Quantity Variation and Contractor is entitled to an equitable adjustment in the contract price and performance time.]*

Vegetation Delay Due to Prescribed Vegetation Dates [Article 40]. CSpec-6 specifies two periods when Sprigging may be performed. If most work is completed (per Engineer) and Sprigging is scheduled during a non-sprigging period, the CO will issue a Suspend Work Order (except Pollution Control responsibilities and work of a protective, maintenance, or emergency nature). CO will issue a Resume Work Order on first workday Sprigging is allowed. Contractor is allowed performance time for the shut down period with no change in contract price.

Accident Prevention and Safety [Article 41]. Includes Supplement to OSHA regulations with many requirements. Brannon Sledge will cover later. VERY important – will monitor and enforce safety.

Supplemental Conditions (PART III)

Insurance Requirements [Articles 1-3]. Read carefully. Due 5 workdays after receipt of Notice of Award. If approved subcontractors are not covered on prime contractor's insurance policies, subcontractor must provide insurance certificates through prime contractor to CLO with same types/levels of coverage. NOTE that most policies require PCCD to be listed as additional named insured and all policies must include a waiver of subrogation.

Post-Award Information [Article 4]. Lists items you must submit within 5 workdays after receipt of Notice of Award. Be prepared to do this!

Performance of Work [Article 5]. The prime contractor must perform at least 20% of work with own forces.

Commencement, Prosecution, and Completion of Work [Article 6]. Note that you must commence "work" within 20 calendar days of date you receive written Notice to Proceed. Move-in does not qualify as "work".

Wage Rates [Article 8]. Because construction, must pay prevailing wage rates for laborers and mechanics. Rates in PART VI. Weekly certified payrolls are not required.

Ethics / Conflicts of Interest [Article 9]. Per State requirements, Contractor will be required to complete online Form 1295, Certificate of Interested Parties.

Performance/Payment Bonds [Article 13]. Gives specific requirements. (a) Bonds are due 5 workdays from date receive Notice of Award. (b) Penal sum: 100% of contract award price.

Special Federal Requirements [Articles 14 - 19]. EEO, affirmative action, debarment & suspension, lobbying, clean air and water. Article 17A is a State certification.

Subcontractor Certification (TPDES) [Article 20]. Subcontractors who perform work that may impact pollution control measures must sign a certification statement – format is in Article 20.

TECHNICAL PRESENTATION

This material was presented by Joe Forrest (Project Engineer). Technical matters not contained in the IFB and additional items emphasized are as follows:

SECTION II – GENERAL CONDITIONS

Article 18 – Materials to be Furnished by the Contractor

Materials which require material certifications include but not limited to:

- Silt Fence Materials
- Construction Entrance Materials (rock/geotextile)
- Aggregates for Drainfill; fine and coarse
- Aggregates for Concrete; fine and coarse
- Rock for Riprap
- Portland Cement
- Supplementary Cementitious Material
- Concrete Admixtures
- Concrete Curing Compound
- Expansion Joint Filler
- Sealing Compound for Joints
- Steel Reinforcement for Concrete
- Reinforced Concrete Pressure Pipe
- Plastic Pipe
- Ductile Iron Pipe
- Slide Gate
- Metal (Principal Spillway Metal Work, Rodent Guard, Cleanout Covers)
- Galvanization of Metal
- Geotextile
- Fencing materials (Barbed Wire and Chain Link)
- Vegetative establishment materials
- Other items as depicted in drawings and described in specifications.

Article 41 – Accident Prevention and Safety & Supplement to OSHA Part 1926 and 1910 Construction Industry Standards and Interpretations

The Contractor shall comply with all applicable OSHA safety standards. All or part of the work may be suspended for noncompliance. The GR and Inspector will have delegated authority to suspend work for any noncompliance posing a serious or imminent danger to the health or safety of the Contractor's employees or others such as employees of the CLO or NRCS and the public.

The Supplement to OSHA 1910 and 1926 emphasizes specific safety items which must be understood by the Contractor prior to bidding this job. Among these items are the requirements for:

1. Written plan for accident prevention and safety (CO must approve prior to beginning work)
2. First Aid Training certificates
3. First aid facilities – on site
4. Safety Meetings, weekly "toolbox" and monthly

5. Dust control
6. Rollover protective structures
7. Backup alarms
8. Restroom Facilities
9. Scaffolding and Fall Protection

Hard hats must be worn on the job site at all times.

Equipment must be outfitted with working backup alarms, seat belts, and approved roll-over protective structures (ROPS). All equipment will be inspected at the job site by the Construction Inspector prior to use on the project.

DRAWINGS

Drawing TX-EN-0781, Cover + Sheets 1-47 for LPCW Site 28 was reviewed.

SECTION IV – SPECIFICATIONS AND SWPPP

There are two types of specifications in this contract: (1) Construction Specifications and (2) Material Specifications. The construction specifications are composed of two parts. The first part is called the closed specification and is the standard NRCS construction specification that begins with the SCOPE and ends with MEASUREMENT AND PAYMENT or PAYMENT. The second part is called the open specification and consists of the ITEMS OF WORK AND CONSTRUCTION DETAILS that are written specifically for this job.

The following construction specifications are summarized, in part, to aid in preparing a competitive bid. However, all language of the specifications apply to the contract and are applicable to the design and construction of the project.

2 – CLEARING AND GRUBBING

Bid Item 1 – Clearing and Grubbing

This item shall consist of all clearing and grubbing and disposal within the work limits including areas designated as stockpile, campsite, waste, borrow, and site access as shown on the drawings. This includes the disposal of existing brush piles, downed debris, piles of rock, metal, concrete, and other such rubbish required for construction of the works of improvement as shown on the drawings.

Unless otherwise marked or designated by the Contracting Officer, trees located within the defined campsite and stockpile areas that are greater than 10-inches in diameter when measured at a height between 3 and 4 feet above the natural ground surface shall not be cleared/removed and be protected.

Existing brush piles and downed debris shall be disposed as specified above and shall be designated, and/or marked at the time of the showing the site to prospective bidders.

Gravel piles within the campsite area and proposed construction areas, as well as any road base material excavated from the existing road during construction operations shall be salvaged and placed in an area approved by the Engineer.

In Section 5, Disposal, all materials removed from the cleared and grubbed areas shall be buried or burned at areas approved by the Engineer. Items designated to be salvaged shall be placed in an area(s) approved by the Engineer. All disposal methods shall be in accordance with state and local regulations.

In Section 6, Measurement and payment, Method 4 shall apply and be made at the contract lump sum price.

3 – STRUCTURE REMOVAL

Bid Item 2 – Structure Removal, Existing Fences

This item shall consist of the removal, salvage, and disposal of all designated fences in the construction area.

In Section 2, Marking, Method 1 shall apply. Structures to be removed will be marked by the Engineer or Inspector with stakes, paint, or flags.

In Section 3, Removal, Method 2 shall apply and be removed to the bottom of the footing and/or post.

In Section 5, Disposal, rubbish or non-woody material shall be disposed of by the Contractor at sites of his own choosing away from the construction site as approved by the Engineer.

All tee posts removed shall be salvaged in accordance with Section 4 of this specification and stockpiled in an area approved by the Contracting Officer. The salvaged tee posts may be released to the landowner under a signed release of materials between the Contractor, Sponsor, and Landowner.

In Section 6, Measurement and Payment, Method 1 shall apply and be measured to the nearest linear foot.

Bid Item 3 – Structure Removal, Existing Principal Spillway

This item shall consist of the removal and disposal of the designated conduit sections, concrete cradle, pipe cantilever and support from the existing principal spillway system, as stated or otherwise shown on the drawings.

The existing principal spillway conduit may be used for dewatering and may remain open until the new principal spillway system, impact basin, and outlet channel installation are complete.

In Section 3, Removal, Method 1 shall apply and removed to the limits as shown on the drawings.

In Section 5, Disposal, rubbish or non-woody material shall be disposed of by the Contractor at sites of his own choosing away from the construction site as approved by the Engineer.

In Section 6, Measurement and Payment, Method 2 shall apply and be made at the contract lump sum price.

Subsidiary Item – Structure Removal, Asbestos Cement Pipe

This item shall consist of the removal and disposal of the designated asbestos cement pipe sections using industry recognized best management practices and standards to ensure compliance with applicable federal, state and local regulations to prevent/limit potential pollutants.

This item shall also include all excavation and earthfill beyond the limits shown in the construction drawings to expose the asbestos cement pipe to allow for removal and disposal.

The Contractor shall acquire the services of a Texas Department of State Health Services (TxDSHS) - licensed Asbestos Abatement Contractor to develop an abatement plan and oversee the removal and disposal of the asbestos cement pipe from the locations indicated in the construction drawings.

Separate payment will not be made for this item of work. Compensation for this item will be included in the payment for **Bid Item 3 – Structure Removal, Existing Principal Spillway**.

Subsidiary Item – Structure Removal, Existing Principal Spillway Metalwork

This item shall consist of the removal and disposal of the existing principal spillway metalwork in accordance with applicable State and local regulations.

This item shall also include the removal and disposal of all steel or cast iron items attached to the existing principal spillway riser including the slide gate, stem, stem guides, hoist/handwheel, orifice plate, air vent, angle iron trash rack, brackets, bolts, fasteners and grate frames.

The aluminum grating removed from the riser shall be salvaged and reused.

The weather station and all corresponding supports, fasteners, wiring, conduit, etc. shall be salvaged and re-installed upon construction completion.

Separate payment will not be made for this item of work. Compensation for this item will be included in the payment for **Bid Item 28 – Slide Gate, 12” Diameter Opening** and **Bid Item 29 – Principal Spillway Metalwork**.

5 – POLLUTION CONTROL

This construction site is greater than 5 acres and is subject to the Texas pollutant Discharge Elimination System (TPDES) requirements administered by the Texas Commission on Environmental Quality (TCEQ). Rules for the TPDES process relative to construction sites are contained in TPDES General Permit No. TXR150000. A copy of the general permit may be found at the TCEQ website.

In conformance with the general permit, a Storm Water Pollution Prevention Plan (SWPPP) is required. The Contractor shall prepare a SWP3 in accordance with the TPDES general permit requirements. The SWP3 shall include a detailed work sequence outline that defines and delineates the proposed

construction operation and includes the minimum pollution control practices indicated on the construction drawings, as well as any additional measures that may be required to meet TPDES requirements. A copy of the general permit shall be attached to the SWPPP. All applicable TCEQ rules and regulations concerning the TPDES and the SWPPP must be followed.

TPDES also requires a Notice of Intent (NOI) and Notice of Termination (NOT) to be filed with TCEQ. The Contractor will be responsible for submitting the Contractor's copy of the NOI to the Engineer at least five business days before work begins.

Bid Item 4 – Pollution Control

This item shall consist of performing all work and furnishing all materials necessary to accomplish the work defined in Section 1 of this specification, including all works required to implement the Storm Water Pollution Prevention Plan, including installation and maintenance of a stabilized rock construction entrance and rock filter dams, but not the installation of the fabric sediment filters.

All pollution control measures shall be removed at the completion of all construction activities.

In Section 7, Measurement and Payment, Method 3 shall apply and establishes lump sum payment for this work which is prorated in equal monthly payments.

Bid Item 5 – Silt Fence

This item consists of furnishing and installing silt fence to the lengths and locations designated on the Drawings and otherwise needed to control sediment from leaving the construction site.

In Section 3, Erosion and Sediment Control Measures and Works, Sediment Filters shall be limited to geotextile silt fence.

Silt fence material shall meet the requirements of MS 592 and be installed according to ASTM D6461.

In Section 7, Measurement and Payment, Method 1 shall apply and will be made to the nearest linear foot installed as specified.

Special Note: Payment includes providing and installing the sediment filters and not maintaining them. Maintenance falls under Bid Item 4 – Pollution Control.

6 – SEEDING, SPRIGGING, AND MULCHING

Bid Item 6 – Permanent Vegetation Establishment, Sprigging

This item shall consist of preparing the seedbed and furnishing and applying sprigs, straw mulch, tackifier and fertilizer to the designated areas as shown on the drawings and as specified herein.

The method of permanent vegetation establishment shall be sprigging of the site with Coastal Bermudagrass sprigs.

Sprigging to establish permanent vegetation shall be conducted between February 15 and May 1; and August 15 and September 30.

Coastal bermudagrass sprigs shall consist of healthy, uninjured, live stolons and rhizomes free from excessive foreign matter. Excess top growth shall be removed before sprigs are harvested. Sprigs shall be obtained from a source within a radius of 100 miles of the works of improvement to be planted.

If sprigging dates do not meet with the construction schedule, the Contractor must follow the SWP3 and TCEQ requirements for temporary vegetation until such time that the permanent vegetative cover can be established. The temporary vegetative cover shall be as recommended by the local NRCS field office and approved by the Contracting Officer. During this period, Contractor also must comply with SWP3 requirements such as periodic pollution control inspections, etc., and must also protect and maintain completed structural work. There will be no adjustment to contract price or performance time.

Hay mulch shall be free of noxious weed seeds and other invasive pests and may consist of coastal bermudagrass or a native bluestem mix and applied at a rate of 2 ½ tons per acre.

Fertilizer shall be of the pelleted form. The rate of application of fertilizer shall be based on a routine soil fertility test conducted for vegetation establishment in accordance with the soil sampling and testing procedures outlined at <http://soiltesting.tamu.edu/files/soilwebform.pdf>

In Section 6, Measurement and Payment, Method 1 shall apply. Measurement will be made to nearest 0.1 acre measured along the horizontal plane with no adjustment for slopes. Payment will be made at the bid unit price.

Bid Item 7 – Irrigation System

This consists of furnishing and installing a temporary solid set sprinkler irrigation system to irrigate the sprigged areas.

A written proposed plan for the system shall be furnished 30 days prior to installing the system.

All equipment, operators, maintenance, operating supplies, and materials needed to install the system shall be furnished. In addition, an in-line, propeller type water meter with volumetric calibration shall be furnished so that all water applied for the irrigation of grasses under the contract will be metered.

The system shall be removed upon completion of all irrigation applications.

In Section 6, Measurement and Payment, Method 2 shall apply and will be made at the contract lump sum price.

Bid Item 8 – Irrigation Water

This consists of applying irrigation water to the areas seeded. It includes the cost of water and labor.

The Contractor shall obtain a source of water for irrigation and obtain any necessary use permits; if required.

The watering efficiency shall not be less than 85% (uniform distribution).

In Section 6, Measurement and Payment, Method 1 shall apply and will be made at 1,000-gallon units and measured to the nearest 1,000 gallons based on the applied volume determined from the readings of the in-line water meter(s).

7 – CONSTRUCTION SURVEYS

Bid Item 9 – Construction Surveys

In Section 3, Quality of Work, electronic models created for the purpose of aiding the Contractor in stakeout and/or quantity computations, as well as field layout and staking shall be prepared and/or performed by a Professional Engineer (PE) or Registered Public Land Surveyor (RPLS) licensed in the state of Texas.

The Contractor must submit to the CO in writing the names, qualifications and experience of the surveyor personnel for approval prior to commencement of work. The Contractor is responsible for the layout of all the work and for checking all work.

In Section 5, Construction Surveys, Method 2 shall apply along with those listed below.

- Those required to check all excavation, earthfill, and topsoil slopes as work progresses to ensure such slopes and finished grades/subgrades are maintained at those specified.
- Earthfill slopes shall be checked at least each 5-ft vertical and corrected to planned slope.
- Those necessary to set “bluetops” for subgrades and finished grades of all excavations, earthfills, topsoil areas, and appurtenances to the works.

In Section 6, Staking, Excavation and fill, shall include all centerline and offset reference lines staked to the minimum requirements for placing slope stakes as outlined in Section 3, Quality of work.

In Section 7, Records, the original field notebooks and other records shall be provided to and become the property of the owner before final payment.

In Section 8, Payment, Method 2 shall apply with payment made as the work proceeds with progress payment amounts determined as a percentage of the total work planned as projected from the Contractor's approved construction schedule.

Initial and final surveys for determinations of final quantities will be performed by the Government. All surveys shall proceed from points established by the Government. The benchmarks are shown on the drawings.

8 – MOBILIZATION AND DEMOBILIZATION

Bid Item 10 – Mobilization and Demobilization

The Contractor shall construct a site access at the approximate location shown on the drawings. The site access shall conform to all applicable TxDOT requirements for a commercial driveway access point from a state highway and include all necessary improvements to facilitate drainage and safety. The minimum width of the site access shall be 20 feet to accommodate 2-way traffic.

The access road shall be constructed as shown on the drawings and maintained by the Contractor. The access road shall be a minimum of 14 feet wide and be graded and smoothed to provide a surface which can be easily traversed by automobiles. Culverts shall be installed at crossings of low areas where significant concentrations of runoff water accumulate and cause ponding of water. The roads shall be maintained in a smooth rut-free condition throughout the contract period.

The Contractor shall furnish a facility at the construction campsite suitable for use as a Field Office for the Contracting Local Organization and Government. The facility shall contain not less than 240 square feet (8-ft-wide by 30-ft-long) having a minimum 7-ft-high ceiling. The facility shall meet all additional requirements and contents as described within this specification.

The facility shall be securely anchored or tied-down to provide maximum possible stability against overturning by high winds. Flashing or skirting shall be installed around the facility from floor level to ground level.

The facility shall be enclosed by a six (6) foot high chain link fence placed to provide a minimum of six (6) feet clearance between the fence and the outside walls of the facility. One (1) gate four (4) feet in width shall be installed in the fence.

The Contractor shall furnish and install electrical service to the Government field trailer and be responsible for supply of power throughout the contract period as specified in this specification. The electrical service provided shall meet the requirements of the latest National Electric Code for providing electric service to the construction trailer. The service shall be adequate to address all anticipated electrical loads and meet the minimum voltage and amperage requirements indicated by the selected trailer and recommended by the trailer manufacturer.

All utilities shall be in place at the worksite prior to the start of work and no later than 15 days after receipt of the Notice to Proceed.

The Contractor shall prohibit livestock entry to the work area by installation of temporary barbed wire or electric fencing. All temporary fencing shall be capable of turning a cow and preventing its access to the construction area. All temporary fencing shall remain in-place and maintained during the entire contract period, or as approved by the Engineer.

As part of demobilization, the access road shall be bladed to be smooth and shall be left in a rut free condition. Any road base material, rock, and culverts installed as part of the mobilization operation for construction of the all-weather access road shall be left in place after construction work is completed unless removal is authorized by the Contracting Officer. A signed release acknowledging either the removal or leaving of the access road and its appurtenances shall be obtained between the Contractor and Contracting Officer.

The constructed site access shall remain in-place and be bladed to be smooth and left in a rut-free condition. All culverts, ditches, and installed safety appurtenances shall be left in working order in accordance with TxDOT requirements.

All debris, trash, tires, equipment, equipment parts, chains, cables, and other such items resulting from the construction operation shall be removed from the worksite and disposed of in an approved location of the Contractor's own choosing. All disturbed areas shall be bladed or smoothed to blend the area with the surrounding land surface. The bladed or smoothed surface shall be free of abrupt mounds, windrows, depressions or other irregularities that would prevent the safe operation of ordinary farm equipment thereon. The finished surface shall prevent diversion of surface runoff and shall prevent standing or ponding water. All buildings, trailers, chain link fence, storage sheds, sanitary facilities, cattleguard and other such items shall be removed from the worksite when construction work is completed. All utilities shall be removed from the site as required by the owner of the utility after construction work is completed. All traffic control devices, warning signs, barricades and any other material used for traffic control shall be

removed. All temporary fencing installed shall be completely removed and the materials disposed of in an approved manner.

Payment will be made as the work proceeds, after presentation of paid invoices or documentation of direct costs by the contractor showing specific mobilization and demobilization costs and supporting evidence of the charges of suppliers, subcontractors, and others. When the total of such payments is less than the lump sum contract price, the balance remaining will be included in the final contract payment.

9 – TRAFFIC CONTROL

Subsidiary Item – Traffic Control

The Contractor is required to submit a written plan for the control of traffic. This plan must be approved by TxDOT and this project's Engineer and may include signage, barricades, use of flaggers, etc.

Compensation for this item is to be included in **Bid Item 10 – Mobilization and Demobilization**.

11 - REMOVAL OF WATER

Bid Item 11 – Removal of Water

The work consists of the removal of surface water and ground water as necessary to perform the construction required by the contract in accordance with the specifications.

The new principal spillway conduit installation area shall be protected from the entry of water from the reservoir until the dam is reconstructed to the full design cross-section over the conduit. Water will not be permitted to enter the new principal spillway conduit until the hooded inlet structure, impact basin, rock armoring, and outlet channel are constructed and fully operational.

A written dewatering system for protection of the new principal spillway conduit installation from reservoir water and a water diversion plan is required. The means of protection shall be designed, complete with sealed plans and specifications, by a Professional Engineer licensed in Texas. The plan requirements shall follow the guidance presented in Technical Release 210-60, "Earth Dams and Reservoirs", March 2019, Part 1-General, Streamflow During Construction, page 1-5 and the requirements of this specification. The plans shall be submitted to the Engineer prior to start of construction operations.

In Section 7, Measurement and payment, Method 1 shall apply. Payment will be made prorated into monthly amounts based on length of contract period.

21 - EXCAVATION

In Section 4 – Use of Excavated Materials, Method 1 shall apply. There is no guarantee that materials obtained from the specified excavations may be used directly in specified fill areas. Separate stockpiling of selected materials to ensure their availability for use in specific zones of the fill may be required. Additional compensation will not be made for stockpiling of excavated materials. Cost for stockpiling of excavated materials shall be included in the compensation for the bid item(s) for excavation.

Suitable materials resulting from the required excavations shall be used to construct the specified fills as indicated in the drawings except materials suitable for topsoil shall be stockpiled at the location designated by the Engineer. Unsuitable materials shall be placed in the waste area shown on the drawings.

In Section 5 – Disposal of Waste Materials, Method 1 shall apply. The disposal of the excavated materials shall include transporting, depositing, and spreading the materials to and on the designated waste area. The waste area shall be at the location designated on the drawings.

Bid Item 12 – Excavation, Common, Embankment

Item shall consist of all excavation required for construction of the embankment subgrade, including all excavation required for the installation of the rock riprap lined wave berm, new and existing principal spillway pipes and associated appurtenances, impact basins, rock riprap lined outlets, outlet channels, as well as all excavation for the left auxiliary spillway as shown on the drawings.

Prior to performing designated excavations, the ground surface shall be stripped of vegetation and topsoil. The depth of this stripping shall be sufficient to remove soil containing significant vegetative or organic matter. The depth of stripping is estimated to be 12 inches, on average.

In Section 9 – Measurement and Payment, Method 3 shall apply where the upper limit for pay limit determination shall be the ground surface as it exists prior to stripping the surface vegetation and topsoil. The neat lines and grades shown on the drawings shall be considered the true surface of the completed excavation unless otherwise approved by the Engineer.

Bid Item 13 – Excavation, Unclassified, Right Auxiliary Spillway

This item shall consist of all excavation required to construct the right auxiliary spillway to the lines and grades shown on the drawings.

Subsidiary Item – Excavation, Common, Foundation Stripping

This item shall apply to the areas receiving earthfill that do not require other excavations before earthfill placement. This excavation consists of removing weeds, grass, roots and soils containing significant vegetative or organic material from the ground surface (including any waste areas) prior to placing earthfill in required areas. The depth of stripping shall be sufficient to remove the vegetative material and soil containing significant organic matter and is estimated to be 3 to 12 inches (on average). The total required volume of stripping shall not exceed that obtained by assuming a depth of 6 inches.

Compensation for this item is to be included in **Bid Item 12 – Excavation, Common, Embankment** and **Bid Item 13 – Excavation, Unclassified, Right Auxiliary Spillway**.

Subsidiary Item – Excavation, Borrow

This item shall consist of all excavation from within the borrow areas required to complete the specified earthfills as designated on the drawings.

Sediment/waste overburden located in the designated borrow area below the ordinary high-water mark (OHWM - elev. 459.8) shall remain in the reservoir area below the OHWM and not transported to other designated waste areas.

Compensation for this item is to be included in **Bid Item 14 – Earthfill, Standard**.

Subsidiary Item – Excavation, Common, Drainfill

This item includes all excavations outside the limits of other designated excavations required for the installation of the drainage systems and bearing pads as shown on the drawings.

Compensation for this item is to be included in **Bid Item 15 – Drainfill**.

Subsidiary Item – Excavation, Common, Concrete Structures

This item includes all excavations outside the limits of other designated excavation, required for the installation of the principal spillway system and appurtenances including the principal spillway outlet structures.

Compensation for this item is to be included in **Bid Item 18 – Concrete, Structural; Bid Item 19 – Concrete, Pipe Cradle**.

Subsidiary Item – Excavation, Common, Rock Riprap

This item includes all excavations outside the limits of other designated excavations required for the installation of the rock riprap as shown on the drawings.

Compensation for this item is to be included in **Bid Item 27 – Rock Riprap**.

Subsidiary Item – Excavation, Structure Removal

This item includes all excavations required for the removal of the existing principal spillway system as shown on the drawings.

Compensation for this item is to be included in **Bid Item 3 – Structure Removal, Existing Principal Spillway**.

23 - EARTHFILL

Bid Item 14 – Earthfill, Standard

This item shall consist of all fill and backfill necessary for the completion of the specified earthfills and earth backfills required for construction of the embankment and the left and right auxiliary spillways as shown on the drawings.

Maximum layer thickness shall be 9-inches before compaction.

In Section 6, Compaction, Class A compaction shall apply. In-place dry density of materials being placed shall not be less than 95 percent of the maximum dry density obtained during tests performed in accordance with the procedures contained in ASTM D698 (Laboratory Compaction Characteristics of Soil Using Standard Effort) using Method A, B, or C, as appropriate. Moisture at the time of compaction shall be from optimum to optimum plus 4% as determined from the above test.

In Section 9, Measurement and payment, Methods 4 and 6 shall apply. In Method 4, the pay limits shall be the specified limits of excavation and the specified neat lines of the earthfill surface. In Method 6, payment is made at the contract unit price for that type and compaction class of earthfill.

24 - DRAINFILL

Bid Item 15 – Drainfill

This item shall consist of furnishing and installing fine and coarse-graded filter material required for the filter diaphragm, inclined drain, new foundation trench drains, and impact basin drainage systems to limits and gradations shown on the drawings.

In Section 2, Material, Method 1 shall apply. A minimum of 30 days before delivery of materials to the site, the Contractor shall inform the engineer in writing of the source(s) from which drainfill material will be obtained.

Fine and compatible coarse drainfill gradations are shown on Sheet 2 of the drawings.

In Section 5, Control of moisture, fine drainfill shall be in wet or near saturated condition when placed. Each layer of fine drainfill shall be saturated immediately prior to compaction. No control of moisture is required for coarse drainfill and riprap bedding.

Use of forms having projections that cause disturbance of adjacent drainfill materials or of in-place embankment materials when being withdrawn will not be permitted.

In Section 6, Compaction, for fine graded drainfill, Class III compaction with the following exceptions shall apply:

The compacted dry density shall be a minimum of 95 percent of the maximum dry density.

The ASTM D698 test procedure shall be modified to consist of a 1-point test performed on a representative sample of oven-dried drainfill.

In Section 8, Measurement and payment, Method 1 shall apply and with the volume measured within the neat lines shown on the drawings. A deduction in volume will not be made for embedded conduits.

26 – TOPSOILING

Bid Item 16 – Topsoiling

This item shall consist of salvaging of approved topsoil from required excavations; from the stripping operations; and from borrow areas and placing and spreading it on all areas designated to receive topsoil including the embankment; vegetative auxiliary spillway dikes, channel, and flare; outlet channels; and exposed excavated slopes as indicated on the drawings.

Upstream borrow areas and associated cut slopes that are above elevation 459.8 shall be topsoiled.

In Section 3, Furnishing, Method 1 shall apply. Topsoil shall be salvaged from designated surfaces that will be disturbed by construction activities.

In Section 5, Spreading, Method 1 shall apply. After spreading the topsoil on the required surfaces, a minimum amount of compacted effort shall be applied by passing over the entire surface with at least one pass of a dozer track. The minimum final topsoil thickness shall be 6 inches normal to the surface.

In Section 6 – Measurement and Payment, Method 1 shall apply and computed to the nearest square yard.

Subsidiary Item – Topsoil, Diversions

This item shall consist of salvaging of approved topsoil and placing and spreading it on the diversion subgrade to complete the auxiliary spillway diversions and stub diversions to their designed dimensions as indicated in the construction drawings.

Compensation for this item will be included in the payment for **Bid Item 17 – Diversions**.

27 – DIVERSIONS AND WATERWAYS

Bid Item 17 – Diversions

This item shall consist of all work required to construct the stub diversions and auxiliary spillway flare diversion as shown in the construction drawings.

The locations of the stub diversions shown on the drawings are approximate. The final locations shall be designated by the Engineer.

In Section 6 – Measurement and Payment, Method 1 shall apply and computed to the nearest foot.

31 – CONCRETE FOR MAJOR STRUCTURES

In Section 2, Materials, Class 2 coarse aggregate shall be Size No. 7, 57, 67, or 467. Concrete items shall be of concrete made with Type II/ V Portland cement. In-lieu of Type II or Type V cement, Type IL(X%)(MS or HS) blended cements as specified in ASTM C595 may be used upon approval of the Engineer.

Blended cements that do not indicate sulphate exposure requirements will require additional testing under ASTM C1012. Documentation of passing test results supporting the sulfate exposure designation as described in ACI 318-19 for exposure class S1 for (MS) and S2 for (HS) shall be provided.

In Section 3, Concrete mix design, Method 1 shall apply. All concrete shall equal or exceed Class 4000. The Contractor must provide the engineer with full documentation to support each job mix and any admixtures to be used in the work at least 15 days prior to placement. The slump range for all concrete shall be 4 inches plus or minus 1 inch.

Portland cement shall make up at least 75% by weight of the total cementitious materials content of the concrete. If fly ash is used as a pozzolan it shall be Type C or F and may be substituted for cement up to 25% by weight of total cementitious materials.

Maximum water to cementitious ratio shall be 0.5.

In Section 13, Construction Joints, Method 1 shall apply. The surface of the construction joints shall be cleaned by sandblasting or high-pressure air-water cutting, or both.

In addition to the finishing of all formed concrete surfaces and slabs in conformance with Section 17 of this specification, all concrete surfaces that will be exposed to air and water, shall be finished by a complete carborundum stone rubbing in accordance with the latest revision of ACI 301 to establish a smooth-rubbed surface, followed by treatment with a heavy duty, cement-based coating such as "MasterSeal 581". The coating material to be used shall be approved by the Engineer.

Bid Item 18 – Concrete, Structural

This item shall consist of furnishing and placing all concrete required for construction of the concrete principal spillway hooded inlet and both impact basins as shown on the drawings.

In Section 24, Measurement and payment, Method 1 shall apply and will be made at the contract unit price.

Bid Item 19 – Concrete, Pipe Cradle

This item shall consist of furnishing and placing all concrete required for the construction of the new principal spillway conduit cradle and extension of the existing principal spillway conduit as shown in the construction drawings.

In Section 24, Measurement and payment, Method 1 shall apply and will be made at the contract unit price.

Bid Item 20 – Surface Repair and Treatment of Existing Concrete Riser

This item shall consist of the patching of honeycombed areas and areas with exposed aggregate on both the inside and outside surfaces of the existing riser.

The existing concrete riser shall be cleaned and the surface shall be free of soil, dust, or other contaminants prior to the surface repair. Cleaning shall be accomplished by pressurized water, air, and/or steam or other approved methods provided that the surface of the riser is not damaged by the cleaning operation and no residues remain that will prevent proper bonding of repair materials.

In Section 24, Measurement and payment, none of the methods shall apply. Payment shall be made at the contract lump sum price for surface repair and treatment of the existing concrete riser.

Subsidiary Item – Establishment of Permanent Reference Markers

The required number and approximate locations of the markers are shown on the drawings. The actual location of the markers shall be as staked by the Engineer.

Consists of all work and materials (except the benchmark cap) required for the establishment of permanent reference markers (PRM) as shown on the drawings. The cap for the PRM will be furnished by the NRCS prior to casting/pouring the concrete.

Markers shall be cast in place or precast non-reinforced concrete cylinders installed flush with the ground line.

Compensation for this item is to be included in the payment for **Bid Item 9 – Construction Surveys**.

Subsidiary Item – Concrete, Metal Cleanout Covers

This item shall consist of the concrete required for the metal cleanout covers as shown in the construction drawings.

Compensation for this item is to be included in the payment for **Bid Item 24 – Plastic Pipe, PVC, 6”**.

34 – STEEL REINFORCEMENT

Bid Item 21 – Reinforcing Steel

This item shall consist of furnishing and placing all steel reinforcement required for the construction of all reinforced concrete works under this contract.

Steel schedules are shown in the drawings.

In Section 2, Materials, reinforcement shall be Grade 60.

In Section 3, Bar schedule, lists and diagrams, any shop drawings, steel schedules, or bar tags provided by the manufacturer shall reference the bar mark designations shown on the construction drawings.

In Section 5, Splicing Bar Reinforcement, Method 1 shall apply and be only made at locations shown on the drawings and provided by the steel schedule.

In Section 7, Placing, if during the placement of the concrete any reinforcement is displaced more than one-half inch from its designated position, that reinforcement shall be entirely removed and placed in proper position.

In Section 9, Measurement and payment, Method 1 shall apply. The weight of steel reinforcement placed in the concrete in accordance with the drawings is determined to the nearest pound by computation from the placing drawings. The weight of steel reinforcing in extra splices or extra-length splices approved for the convenience of the contractor or the weight of supports and ties is not included in the measurement for payment.

41 – REINFORCED CONCRETE PRESSURE PIPE CONDUITS

In Section 3, Laying the pipe, Method 1 shall apply and be connected by sliding the bell over the spigot or by sliding the spigot into the bell and applying a pulling or jacking force in a manner that will allow the spigot to enter squarely into the bell.

In Section 5, Pressure testing, Method 1 shall apply and is not required.

In Section 6, Measurement and payment, Method 2 shall apply. The quantity is determined as the sum of the nominal laying lengths of the pipe sections used. This includes all accessories necessary and incidental to the completion of the work.

Bid Item 22 – Concrete Pressure Pipe, 30” C-301

This item shall consist of furnishing and installing the 30” I.D. conduit for the new principal spillway as shown on the drawings.

Bid Item 23 – Concrete Pressure Pipe, 24” C-301

This item shall consist of furnishing and installing the 24” I.D. conduit for the extension of the existing principal spillway conduit as shown on the drawings.

The Contractor shall have a representative from the concrete pipe manufacturer observe and obtain measurements of the existing 24" concrete pipe to ensure a watertight connection between the existing pipe and the new pipe may be maintained. All connections shall meet the minimum requirements indicated on the construction drawings and recommended by the manufacturer.

45 – PLASTIC PIPE

In Section 2, Material, the P.V.C. plastic pipe shall be ASTM D1785, Schedule 80 or AWWA C900, pressure class 150.

In Section 6, Pipe embedment, earth bedding and pipe encased in drainfill shall apply. In addition to the details stated in Section 6 for bedding of P.V.C. pipe, the bedding shall be as shown on the drawings.

In Material Specification 547, Section 3, Perforations, item c. shall not apply. Slotted pipe shall be used. Slot dimensions and geometry shall be as shown on the drawings.

In Section 10, Fittings, fittings shall have a pressure rating equal to the pipe unless otherwise specified in the plans.

In Section 12, Pressure testing, Method 1 shall apply. Pressure testing is not required.

In Section 13, Measurement and payment, Method 3 shall apply. The quantity is determined to the nearest foot by measurement of the laid length along the crown centerline of the conduit.

Bid Item 24 – Plastic Pipe, PVC, 6" ID

This item shall consist of furnishing and installing the 6-inch diameter slotted and non-perforated P.V.C. along with all necessary fittings, couplings, and all other items and appurtenances necessary and incidental to completion of the work as shown on the drawings.

This item shall also consist of all 6" I.D. plastic pipe required for the filter diaphragm, inclined drain, and existing foundation drain as shown on the drawings.

One-way, stainless steel, backflow prevention, filter check valves such as those manufactured by Jet Filter Systems or other equivalent devices as approved by the Engineer shall be installed in the 6" pipe outlets for the impact basin at the locations indicated on the drawings. A total of four (4) are required for the ES-4090 impact basin and two (2) are required for the ES-4110 impact basin.

Bid Item 25 – Plastic Pipe, PVC, 4" ID

This item shall consist of furnishing and installing the 4-inch diameter slotted and non-perforated P.V.C. along with all necessary fittings, couplings, and all other items and appurtenances necessary and incidental to completion of the work as shown on the drawings.

This item shall also consist of all 4" I.D. plastic pipe required for the impact basin drainage systems as shown on the drawings.

One-way, stainless steel, backflow prevention, filter check valves such as those manufactured by Jet Filter Systems or other equivalent devices as approved by the Engineer shall be installed in the 4" pipe outlets for the impact basin at the locations indicated on the drawings. A total of four (4) are required for the ES-4090 impact basin and four (4) are required for the ES-4110 impact basin.

53 – DUCTILE IRON PIPE

In Section 2, Material, the ductile-iron pipe shall have a pressure rating that meets or exceeds the P.V.C. pipe that it joins. The ductile-iron pipe shall be compatible with mating to the installed P.V.C. to form a watertight joint. Special fittings or adapters required by the manufacture to provide a watertight connection shall be approved by the Engineer.

In Section 7, Backfill, none of the methods shall apply. Initial and final backfill of the ductile iron pipe shall be in accordance with the backfill requirements for P.V.C. as specified in Construction Specification 45 and as shown in the construction drawings. Compaction of the initial and final backfill shall be as specified in Construction Specification 23 for earth backfill.

Bid Item 26 – Ductile Iron Pipe

This item shall consist of furnishing and installing the 6-inch I.D. ductile-iron pipe as the termination joint for the 6-inch I.D. P.V.C. outfall line for the new foundation trench drain as described on the drawings.

61 – ROCK RIPRAP

Bid Item 27 – Rock Riprap

This item shall include furnishing and placing the rock riprap required for the upstream wave berm, as well as to construct the rock lined outlets below the impact basins as shown on the drawings.

Rock for use as riprap shall comply with the requirements of Material Specification 523, Rock Type 1.

Rock gradation requirements are shown on Sheet 2 of the drawings and meet the gradations of ASTM D6092; R-150 size rock.

Riprap shall be equipment placed. Equipment shall not be allowed on the rock during or after placement.

In Section 7, Measurement and payment, Method 1 shall apply and is computed to the nearest ton by actual weight. A statement of delivery ticket showing the weight to the nearest 0.1 ton is required.

71 – WATER CONTROL GATES

Bid Item 28 –Slide Gate, 12” Diameter Opening

This item shall consist of furnishing and installing a new slide gate on the existing principal spillway inlet including gate, stem, stem guides, lift pedestal, hand wheel, wedges, and all associated appurtenances.

The gate shall be similar in material and construction to the original slide gate that was installed and shall mate with the existing wall thimble to provide a watertight seal across the existing 12” diameter opening in accordance with industry recognized standards.

The gate shall conform to the requirements of Material Specification 571 for Type MHS-1 and shall be Class 50-10, Round Opening or approved equivalent as recommended by the manufacturer and approved by the Engineer to mate with the existing wall thimble.

Dimensions between the operating platform and existing gate opening shall be field verified by the Contractor prior to ordering gate materials.

Anchor bolts shall be stainless steel.

Stem guides shall be adequately spaced and of sufficient number as recommended by the manufacturer to properly support the stem during operation of the gate. The wall bracket shall be as recommended by the manufacturer. Hoist or lift shall be of similar construction as the existing gate.

All bolts shall be furnished with flat washers and lock washers or with flat washers and double nuts for lock nuts. All washers and nuts shall be of the same materials and have the same coatings as the bolts on which applied.

The gate frames shall be of the flat back or flange back type. The gate stems shall be the non-rising type and shall be solid stock stainless steel.

The wall thimbles shall be of cast iron and shall be Type F, twelve (12) inches in length, and shall have a square opening.

Payment is made at the contract lump sum price and includes all accessories necessary and incidental to the completion of the work.

81 – METAL FABRICATION AND INSTALLATION

Bid Item 29, Principal Spillway Metal Work

The work consists of furnishing, fabricating, and erecting metalwork, including the metal parts and fasteners of the composite structures.

Unless otherwise specified, material shall conform to the requirements of Material Specification 581, Metal. Steel shall be structural quality unless otherwise specified. Castings shall be thoroughly cleaned and subjected to careful inspection before installation. Finished surfaces shall be smooth and true to assure proper fit. Galvanizing shall conform to the requirements of Material Specification 582, Galvanizing.

Fabrication of structural steel shall conform to the requirements of Specification for the Design, Fabrication and Erection of Structural Steel for Buildings (Riveted, Bolted and Arc-Welded

Construction), American Institute of Steel Construction. Fabrication of structural aluminum shall conform to the requirements in the Aluminum Design Manual available from The Aluminum Association.

In Section 6, Measurement and payment, Method 3 shall apply and is made at the contract lump sum price.

Subsidiary Item, Metal Cleanout Covers

This item shall consist of furnishing, fabricating, galvanizing, and installing the metal cleanout covers of the specified type and locations as shown on the drawings.

Compensation for this item will be included in the payment for **Bid Item 24 – Plastic Pipe, PVC 6”**.

Subsidiary Item, Post Mounting Brackets

This item shall consist of furnishing, fabricating, galvanizing, and installing the posts and post mounting brackets for the impact basin chain link fences as shown in the drawings.

Compensation for this item will be included in the payment for **Bid Item 30 – Chain Link Fence**.

Subsidiary Item, Stiles

This item shall consist of furnishing, fabricating, galvanizing, and installing the fence stiles as shown on the drawings.

Compensation for this item will be included in the payment for **Bid Item 31 – Fence, Barbed Wire**.

Subsidiary Item, Rodent Guard

This item shall consist of furnishing, fabricating, galvanizing, and installing the rodent guard for the new foundation trench drain outlet as shown on the drawings.

Compensation for this item will be included in the payment for **Bid Item 26 – Ductile Iron Pipe**.

91 – CHAIN LINK FENCE

Bid Item 30 – Fence, Chain Link

This item shall consist of furnishing all materials required and all work necessary for installation of the chain link safety fence on top of the impact basins as shown on the drawings.

In Section 2, Material, Galvanized and PVC coated shall apply. The PVC coating shall be black.

In Section 5, Measurement and Payment, Method 1 shall apply and is measured to the nearest 0.1’.

92 – FIELD FENCE

Bid Item 31, Fence, Barbed Wire

This item shall consist of furnishing all materials required and constructing fences of the type designated on the drawings.

The approximate location of the fences to be constructed is shown on the construction drawings. The final location of the fences (including corners, gates, pull and brace panels, stiles and special anchorage) shall be as staked by the Engineer.

In Section 10, Measurement and payment, Method 1 shall apply and measured to the nearest foot.

94 – CONTRACTOR QUALITY CONTROL

Bid Item 32 – Contractor Quality Control

This item consists of developing, implementing, and maintaining a quality control system to ensure that the specified quality is achieved for all materials and work performed.

The contractor shall meet with the contracting officer before any work begins and discuss the contractor's quality control system. The contracting officer and the contractor shall develop a mutual understanding regarding the quality control system, including procedures for correcting quality control issues.

The results of contractor quality control inspections and tests shall be communicated to the engineer immediately upon completion of the inspection or test. Unless otherwise specified in section 10, the original plus one copy of all records, inspections, tests performed, and material testing reports shall be submitted to the engineer within one working day of completion. The original plus one copy of documentation of material delivered shall be submitted to the engineer before the material is used.

The burden of proof that work performed meets contract requirements rests upon the Contractor. Quality assurance inspections and tests by the Government are for the sole benefit of the Contracting Local Organization (CLO). The use of such words as "as approved by the Engineer or Contracting Officer" and

words of like import in the specifications or drawings which refer to approval by the Contracting Officer are considered to be a part of the Government's Quality Assurance program and do not relieve the Contractor in any part for the Contractor's Quality Control Responsibilities as specified

In Section 3, Quality control system, Method 2 shall apply, except that the written plan shall be submitted to the Contracting Officer within 10 calendar days after notice of award.

In Section 4, Quality control personnel, Method 2 shall apply and shall be accomplished by competent personnel who are separate and apart from line supervision and who report directly to management.

In Section 9, Payment, Method 2 shall apply and shall be prorated and paid in equal amounts on each monthly estimate.

95 – GEOTEXTILE

Bid Item 33, Geotextile

This item shall consist of furnishing and placing the geotextile for the rock riprap located along the upstream wave berm and rock lined outlets below the impact basins as shown on the drawings.

Placing the geotextile for the rock riprap includes all excavation, fill and backfill required for keying geotextile into the slope, as shown on the drawings. The minimum anchorage shall be 18 inches unless otherwise indicated by the manufacturer.

Geotextiles shall be non-woven Class I and meet Material Specification 592.

The geotextile shall be placed and approved by the Engineer immediately prior to the placement of the rock riprap.

In Section 5, Placement, Method 2 shall apply and shall be joined by overlapping a minimum of 18 inches (unless otherwise specified) and secured against the underlying foundation material.

In Section 6, Measurement and payment, Method 1 shall apply. Geotextile shall be measured to the nearest square yard for covered surfaces only, disregarding that required for anchorage, seams, and overlaps.

SITE VISIT

A map showing stops made during the site visit is attached.

ATTACHMENTS:

- 5/30/24 Attendance List
- Site Visit Map
- Map showing landowners in and around Site 28

DISTRIBUTION:

To be posted on PCCD website. All registered plan holders will be advised via email (or otherwise) when Amendment #1 is available for downloading from **www.pccd.org/ (Job Bids tab)**

“Internal” personnel, via email

FILECODE: IFB Tab 4A (Site Showing)

PRE-BID CONFERENCE ATTENDANCE (5/30/24)

Plum Creek Conservation District Personnel

Daniel Meyer, Contracting Officer and Executive Manager
Alan Burklund, Alternate Contracting Officer and Project Manager
Tyler Farco, Staff Member
Jean Ann Maynard, PCCD Contracting Consultant

USDA Natural Resources Conservation Service

Joe Forrest, Project Engineer, Temple, TX
Tony Barley, Construction Inspector, Temple, TX

Others

Southern Infrastructure Group, Dallas, TX (Tim Shover)
Drewery Construction, Nacogdoches, TX (Mike Montario)
East Texas Earth, Conroe, TX (Robert Starke)
Sequoia Services, Greensboro, NC (Kevin King)
D.J. Hansen Construction Corporation, Ephraim, UT (Dave Hansen)
KLP Construction Supply, Ft. Worth, TX (Reyes Lopez Jr., Ben W.)
TSI Laboratories, Texas (Jose Martinez)
MAC, Inc., Austin, TX (Elias Anderson)
JMK Site Work LLC, Paris, TX (Johnny Kocha)
UES, Austin, TX (Zach Cook)

ATTACHMENT: IFB Amendment #1

Invitation for Bids (IFB) No. PCCD-24-PCW28Rehab-01

Site 28 Site Showing Map




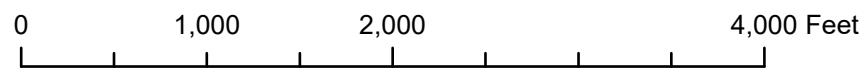
<u>Stop #</u>	<u>Description of Stop</u>
1	Camp Site and view of auxiliary spillway.
2	Top of dam and to discuss stockpile and borrow areas.
3	Discuss the existing riser and new riser installation.
4	Work limits.



Maxar

Legend

 Site_28_landowners
Located in and around site 28



This map was generated by the Plum Creek Conservation District using GIS (Geographic Information System) software. No claims are made to the accuracy or completeness of the information shown here n nor to its suitability for a particular use.

*records from February 2024
Caldwell County Appraisal District