



COLORADO

Parks and Wildlife

Department of Natural Resources

**Kemp-Breeze SWA - Replace Residence Wells
BIDDING AND CONTRACT INFORMATION**

**PROJECT NO. S26WNW-10244
DQ1 2026*271**

OPTIONAL PRE-BID CONFERENCE: Thursday, January 29, 2026 at 12:00 p.m.

BID OPENING: Tuesday, February 10, 2026 at 1:30 p.m.

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S26WNW-10244

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INVITATION FOR BIDS
Kemp-Breeze SWA - Replace Residence Wells

The Colorado Division of Parks and Wildlife is accepting bids for **Drilling New Replacement Wells at the two residences located on the Kemp-Breeze SWA.** .

Bids will be received by Colorado Parks and Wildlife via email (preferred), mail or hand delivered to **6060 Broadway, Denver, CO 80216** until **Tuesday, February 10, 2026 at 1:30 p.m.**, after which the bids will then be made public. Bids shall be submitted using the form provided in the project specifications.

Optional Pre-bid conference: **Thursday, January 29, 2026 at 12:00 p.m.** at the project site (Meet at Breeze Residence).

Project Address: Kemp-Breeze SWA
 447 Co Rd 3
 Parshall, CO 80468
 Grand County

Project Coordinates: Latitude: 40° 2'59.92"N
 Longitude: 106° 10'44.25"W
 View Google Map Location - [Kemp-Breeze SWA](#)

Contractor Questions: All questions related to the project shall be submitted via e-mail to the Design Manager, **Joe DeCrescentis at joe.decrescentis@state.co.us**. The deadline for questions is **02/04/2026 at 5 p.m.**. Questions submitted after the deadline will not be addressed. All questions and answers will be posted as solicitation amendments on the Vendor Self Service (VSS) website. Bidders may not automatically be notified of the existence of a modification or addendum. It is the responsibility of the bidder to check the VSS website periodically to see if any modifications have been issued. Failure to retrieve such modifications and include their provisions in your bid response may result in your bid being deemed non-responsive.

Plans and specifications are available for all bidders on the web at: www.colorado.gov/vss

The following is a tentative project schedule, which will be revised and expanded by the selected Contractor and submitted to the Project Manager for review:

OPTIONAL PRE-BID CONFERENCE	Thursday, January 29, 2026 at 12:00 p.m.
WRITTEN QUESTIONS DUE	<u>02/04/2026 at 5 p.m.</u>
BID OPENING	Tuesday, February 10, 2026 at 1:30 p.m.
NOTICE OF AWARD	February 16, 2026 (Tentative)
NOTICE TO PROCEED	March 2, 2026 (Tentative)
SUBSTANTIAL COMPLETION	May 2, 2026 (Tentative)

BID SCHEDULE
Kemp-Breeze SWA - Replace Residence Wells

DEPARTMENT OF NATURAL RESOURCES
COLORADO PARKS AND WILDLIFE
STATE OF COLORADO

_____ Proposes to furnish all labor, equipment, materials, and incidentals needed to complete the Kemp-Breeze SWA - Replace Residence Wells. The work shall be completed in 60 calendar days from the date of the Notice to Proceed. We have read and made, the “Instructions to Bidders”, the “General Conditions for Capital Construction”, the Written Specifications, and the Construction Drawings part of this bid.

Technical Specifications related to construction materials and methods for work embraced under this Contract shall consist of references to, but not limited to, the **Colorado Department of Transportation Most Current Standard Specifications for Roads and Bridge Construction**. Special attention should be given to these references and revisions noted within.

UNITS: LF= linear foot, SF= square foot, SFF= square face foot, LS= lump sum, SY= square yard, CY= cubic yard, TON= tons, AC= acres

Service Disabled Veteran Owned Small Business Statement (SDVOSB): The undersigned bidder shall certify by **checking** below that the corporation, partnership, or sole proprietorship **IS or IS NOT** claiming a 5% bid preference in accordance with C.R.S. 24-103-211. SDVOSB certification must be included with your bid.

Is: ☐ Is Not: ☐

Addendum Inclusion Statement: The undersigned bidder shall certify by **listing** below that all Addendums have been considered and included as part of the Contractor’s proposal. The Addendum numbers that the Contractor has included as part of his proposal shall be listed in the space provided.

Addenda: _____

Base Bid: Furnish and install all materials and labor for the completion of the Base Bid Improvements per the Construction Drawings and Specifications.

Base Bid Items:	Quantity	Unit	Unit Cost	Total Item Cost
1. Mobilization	1	LS	\$	\$
2. Perform Production Well Drilling	120	LF	\$	\$
3. Furnish and Install 12" Diameter Steel Surface Casing	40	LF	\$	\$
4. Furnish and Install 4.5" Diameter P.V.C. Well Casing	40	LF	\$	\$
5. Furnish and Install 4.5" Diameter P.V.C. Well Screen	80	LF	\$	\$
6. Furnish and Place Well Cement Seal	2	EA	\$	\$
7. Perform Well Development	16	HR	\$	\$
8. Perform Well Step Pump Testing	8	HR	\$	\$
9. Perform Well Constant Rate Pump Testing	16	HR	\$	\$
10. Chlorinate Well	2	EA	\$	\$

Base Bid AMOUNT \$_____

Base Bid AMOUNT:(PLEASE WRITE OUT BID AMOUNT)

\$_____

DOLLARS

(A Corporate Signature Block)

Company Name

A _____ Corporation

Date _____, 20____

Colorado VSS Vendor ID# (if available) _____

By _____
President

Attested to by _____
Secretary

(A Partnership Signature Block)

A limited partnership of _____, general
partner;

_____ doing business as (dba)

_____.

Company Name

Colorado VSS Vendor ID# (if available) _____

by _____
General Partner

(A Sole Proprietorship Signature Block)

A Sole Proprietorship of _____ (dba)

_____.

Colorado VSS Vendor ID# (if available) _____

by _____ Owner

MEASUREMENT AND PAYMENT
Kemp-Breeze SWA - Replace Residence Wells

The following descriptions delineate the Work, materials, and how measurements of completed Work will be made and paid for, for each bid item in the Bid Schedule. The Bidder is to read these definitions and price their proposal accordingly.

Bid Item 1 - Mobilization

This bid item includes the mobilization of personnel, equipment and supplies at the project site in preparation for the Work, as well as the establishment and maintenance for the duration of the Contract of the Contractor's sanitary facilities, protective fencing and barricades not included elsewhere, necessary facilities, and all other costs incurred or labor and operations which must be performed prior to beginning the other items under the Contract. This item shall include any costs for required bonding of this project. This item shall also include marshalling, disassembly and security of all items indicated on the Construction Drawings or Specifications or installed as part of mobilization and demobilization from the site. Payment will be made in two installments: the first 60% will be paid on the first month's pay estimate, and the remaining 40% after the final cleanup has been completed and approved.

Bid Item 2 - Perform Production Well Drilling

This bid item includes all material, labor, equipment and incidental costs connected with performing all drilling necessary for the new production well as shown in the drawings and specifications. The total drill depth shall be 120 vertical feet (60 feet each well) or a total depth as deemed necessary to achieve the desired flowrate, as determined in field by the driller. This bid item includes all necessary drilling lengths and diameters and shall be in accordance with the methods listed in the specifications. Payment will be made at the contracted price per vertical lineal foot drilled.

Bid Item 3 - Furnish and Install 12" Diameter Steel Casing

This bid item includes all material, labor, equipment, and incidental costs connected with the installation of the 12" diameter steel casing for each well as shown in the drawings and specifications. For each well, the steel casing shall be 20 feet long starting from grade level, or a length recommended by the driller determined in the field. This bid item includes all grout and other necessary materials for the casing pipe. Payment will be made at the contracted price per vertical lineal foot of 12" diameter casing pipe and grout installed.

Bid Item 4 - Furnish and Install 4.5" Diameter P.V.C. Well Casing

This bid item includes all material, labor, equipment, and incidental costs connected with the installation of the 4.5" diameter well casing for each well as shown in the drawings and specifications. This bid item also includes all other necessary materials for the well casing pipe. Payment will be made at the contracted price per vertical lineal foot of 4.5" diameter well casing pipe installed.

Bid Item 5 - Furnish and Install 4.5" Diameter P.V.C. Well Screen

This bid item includes all material, labor, equipment, and incidental costs connected with the installation of the 4.5" diameter well screen for each well as shown in the drawings and specifications. The well screens shall be placed at intervals determined by the driller onsite to achieve the desired well flow rate. This bid item includes any necessary materials for the installation of the well screen sections. Payment will be made at the contracted price per vertical lineal foot of 4.5" diameter well screen installed.

Bid Item 6 - Furnish and Place Well Cement Seal

This bid item includes all labor, materials, submittals, equipment and incidental costs for installation of each new well cement seal in the annulus between the 12-inch surface casing and the production casing by placing cement grout from a depth below ground surface as recommended by the driller to ground level. Payment will be made for each completed well seal in accordance with Colorado Division of Water Resources requirements.

Bid Item 7 - Perform Well Development

This bid item includes all labor, materials, equipment, and incidental costs for the development of each well until the water is essentially clear and sediment free. This bid item also includes, but is not limited to, methods, sampling, sand/gravel pack, grout, and cleaning. Payment will be made at the contracted price per hour worked on developing the wells.

Bid Item 8 - Perform New Well Step Pump Testing

This bid item includes all labor, materials, submittals, equipment and incidental costs for conducting pump testing of the new wells at increasing pumping rates as specified by the Project Manager. Also included is recording the water level in the wells and discharge rates, and handling the discharged pumping water as specified by CPW and any State Discharge Permits. Payment will be made at the contract price in Hours spent performing step pump testing.

Bid Item 9 - Perform New Well Constant Rate Pump Testing

This bid item includes all labor, materials, submittals, equipment and incidental costs for conducting pump testing of the new wells continuously at a constant pumping rate for up to 16 hours (8 hours for each well). Also included is recording the water level in the wells and discharge rates, and handling the discharged pumping water as specified by CPW and any State Discharge Permits. Payment will be made at the contract price in Hours spent performing constant rate pump testing.

Bid Item 10 - Chlorinate New Well

This bid item includes all labor, materials, equipment and incidental costs for disinfecting each well with calcium hypochlorite per state well construction requirements. Payment will be made for the chlorination of each well.

As a footnote to the bid items, the following items have NOT been included as specific pay items and ARE to be considered incidental to the construction for which they are required:

- Water, watering, and dust control
- Dewatering
- Temporary facilities and utilities
- Traffic control
- Barricades and other required safety provisions

This concludes the bid items listed in the proposal. The only payments made under this contract are for the bid items listed herein, and no additional payments will be made to the Contractor for work specified or shown in these Contract Documents. If any discrepancies exist, the Contractor shall notify the Project Manager in writing, requesting clarification.

END OF SECTION

INSTRUCTIONS TO BIDDERS

PROJECT: Kemp-Breeze SWA - Replace Residence Wells
PROJECT NO: S26WNW-10244

1. Bidders must review the plans and specifications, construction site and conditions in their entirety, and determine the problems that may be encountered in performing the work. The bidder shall include any costs associated with his/her findings in the prices quoted in the proposal. Documents will be available on the State of Colorado VSS website www.colorado.gov/vss. No additional copies of the drawings and specifications will be provided by the Division of Parks and Wildlife at any time before or after the bid opening.
2. All work must conform to the requirements stated in the "General Conditions for Capital Construction".
3. All questions concerning this project shall be in writing directed to the Project Manager identified in the Invitation for Bids. The Invitation for Bids also identifies important dates and deadlines for this project.
4. BID SCHEDULE:
 - A. The bidder shall include on the signature page, their Vendor ID (if available) obtained from registration on the Colorado VSS website.
 - B. The bidder shall complete the Minority Business, Service Disabled Veteran Owned Small Business and Colorado Labor statements as well as acknowledge addendum(s) on the first page of the Bid Schedule.
 - C. All bid items shall include a unit and extended price or the bid will be disqualified. The bidder shall write in words and numerically the total base bid and add/alternate (if applicable) amounts on the included Bid Schedule. If conflicts exist between the written words and the numerical amount, the actual line item unit cost shall take precedence.
 - D. The Bid Schedule shall be signed manually in ink:
 - 1) If the bidder is a corporation, use the corporate signature block, insert the name of the state in which the company was incorporated, and include the Employer Identification Number (E.I.N.) in the appropriate spaces. The bid must be signed by an officer (President or Vice President), and the title indicated. The signature of the officer shall be attested to by the Secretary and properly sealed. Cross out incorrect titles and insert correct ones, if necessary.
 - 2) If the bidder is a partnership, use the partnership signature block. Cross out the word "Limited" if the partnership is a general one. Print each partner's name and note the proportion of the partnership that each partner has. The majority or general partner must sign the proposal. The same person must sign the contract, if awarded. Print the company name in the appropriate space.
 - 3) If the bidder is a proprietorship, use the sole proprietorship signature block, print in the owner's name, Social Security number, and the business name in the blanks provided, and the owner signs the owner blank.
5. PERFORMANCE BOND, LABOR AND MATERIAL BOND: The successful bidder shall furnish a bond in the amount of 100% of the contract price for performance and for material and labor payment when bid is equal to or exceeds \$150,000. The bond shall be executed on the standard State of Colorado form. The State requests that the Surety and Contractor leave the date of the Contract found on the first page of each bond form, blank and we will

'pen' in the date after the Controller executes the Contract. These bonds will be submitted along with the standard State Agreement form within 10 days of the "Notice of Award."

6. SERVICE DISABLED VETERAN OWNED SMALL BUSINESSES (SDVOSB's): SDVOSB's, who are incorporated or organized in Colorado or maintain a place of business or have an office in Colorado and who are officially registered and verified as a SDVOSB by the Center for Veteran Enterprise within the U.S. Department of Veterans Affairs. (www.vip.vetbiz.gov), may receive a 5% preference on their bid. This preference applies only to the price, and the SDVOSB's must still meet all other qualifications required in the bid. SDVOSB's claiming this preference shall submit documentation of SDVOSB certification Issued through the U.S. Department of Veterans Affairs in their response to the solicitation. Bid submissions without this documentation will not be given a preference.
7. VENDOR BOND ASSISTANCE: Any vendors that need support responding to solicitations may contact the Colorado Supplier Diversity Navigator at the Statewide Equity Office of Supplier Diversity dhr.colorado.gov/statewide-equity-office/supplier-diversity. Services provided include assistance with responding to solicitations, interpretation of solicitation documents, technical assistance referrals, availability of resources, and bond assistance under the Construction Statewide Bond Assistance Program dhr.colorado.gov/statewide-equity-office/supplier-diversity/construction-and-bond-assistance, through which eligible contractors can apply for assistance in securing the required bonding. The office can be reached during normal business hours by calling 303-866-5765 or emailing DPA_SupplierDiversityHelp@state.co.us.
8. SUBMITTAL OF BID: The completed Bid must be received by the deadline identified in the Invitation for Bid. You must include as part of your bid the following items:
 - A. Provide completed Bid Schedule as described above.
 - B. SDVOSB certification issued through the U.S Department of Veterans Affairs (if applicable).
 - C. Contractor's Qualifications and References Statement.

If submitting via email: joe.decrecentis@state.co.us

If submitting a hard copy, the envelope shall be addressed to:

ATTN: Joe DeCrescentis
Capital Development Section
COLORADO PARKS AND WILDLIFE
6060 Broadway
Denver, CO 80216

Bidders Name and Address should appear in the Upper Left Corner of the envelope.

9. METHOD OF AWARD: The lowest responsible bid will be determined by and the purchase order or contract will be issued, to the extent that the total dollar amount is within available funds to finance the construction. If all bids exceed such amount, the right is reserved to reject all bids. The Division of Parks and Wildlife reserves the right to reject any or all proposals, to waive informalities, and to accept any proposal deemed desirable.

Additive alternates will be used in determining the lowest responsible bidder within the amount available to finance the contract, added in the numeric order listed. An equal

number of alternates shall be added to the base bid of each bidder within funds available to finance the contract for purposes of determining the lowest responsible bidder.

The bidder must be registered to do business in the State of Colorado with the Secretary of State www.sos.state.co.us. A Certificate of Good Standing will be required to process the Agreement.

If Federal funds are utilized for this project, the contract cannot be awarded to a contractor which has been disbarred or suspended or is otherwise excluded from or ineligible for participation in federal assistance programs. The excluded parties list can be found at the following web site: <https://www.sam.gov/>

10. UNIT COST: The price quoted in the proposal shall include the costs of labor, materials, equipment, and incidentals required to provide a fully complete and functioning unit as shown and described in the plans and specifications. The price stated in the proposal shall be complete, and represent total payment for each item in the proposal. No additional payment will be made for the work presented in the proposal.
11. INSURANCE: The successful bidder will be required to submit proof of insurance at the time of executing the agreement. Proof of insurance must be submitted on certificates showing the minimum coverage amounts.
 - A. The Contractor is required to procure and maintain at all times during the term of this contract the insurance coverage listed below:
 - 1) Workers' Compensation and Employer's Liability Insurance, as required by state statute, including occupational disease, covering all of contractor or subcontractor employees acting within the course and scope of their employment.
 - 2) Commercial General Liability Insurance written on ISO occurrence form CG 00 01 10/93 or equivalent, covering premises operations, fire damage, independent contractors, products and completed operations, blanket contractual liability, personal injury, and advertising liability with minimum limits as follows:
 - a. \$1,000,000 combined single limit written on an occurrence basis;
 - b. \$1,000,000 general aggregate;
 - c. \$1,000,000 products and completed operations aggregate; and
 - d. \$50,000 any one fire.
 - e. If any aggregate limit is reduced below \$1,000,000 because of claims made or paid, the contractor shall immediately obtain additional insurance to restore the full aggregate limit and furnish to the State a certificate or other document satisfactory to the State showing compliance with this provision.
 - 3) Automobile Liability Insurance covering any auto (including owned, hired and non-owned autos) with a minimum limit as follows: \$1,000,000 each accident combined single limit.
 - 4) Pollution liability policy with minimum limits of \$1,000,000 each occurrence and \$1,000,000 Annual Aggregate covering any environmental damage caused by the contractor or subcontractor during the Work with the State included as an additionally insured party.
 - B. The State of Colorado shall be named as an *Additional Insured* on the Commercial General Liability, Automobile Liability, policy insurance certificates and Colorado Parks and Wildlife must be named as the certificate holder for all coverages 1-4 noted above (leases and construction contracts will require the additional insured coverage for completed operations on endorsements CG 2010 11/85, CG 2037, or equivalent). Coverage required of the contract will be primary over any insurance or

- self-insurance program carried by the State of Colorado.
- C. The Insurance shall include provisions preventing cancellation or non-renewal without at least 45 days prior notice to the State by certified mail.
 - D. The Insurance shall include a waiver of subrogation for all coverages.
 - E. The contractor will require all insurance policies in any way related to the contract and secured and maintained by the contractor to include clauses stating that each carrier will waive all rights of recovery, under subrogation or otherwise, against the State of Colorado, its agencies, institutions, organizations, officers, agents, employees and volunteers.
 - F. All policies evidencing the insurance coverage required hereunder shall be issued by insurance companies satisfactory to the State. No later than 15 days prior to the expiration date of any such coverage, the contractor shall deliver the State certificates of insurance evidencing renewals thereof.
12. If the successful bidder, upon acceptance of his bid by the OWNER, fails to execute such further contractual documents, and give such bond(s) (including any necessary coinsurance or reinsurance agreements) as may be required within ten (10) days after receipt of the Notice of Award, the contract may be terminated for default. In such event the CONTRACTOR shall be liable for any cost of procuring the work which exceeds the amount of his bid, and the bid guarantee shall be available toward offsetting such difference.
13. The bidder is not to give any information concerning his proposal to any other bidder or receive any information concerning another proposal.
14. SALES TAX: The Division of Parks and Wildlife is exempt from paying Colorado sales tax. Any materials and supplies purchased for this contract are exempt. The Contractor will need to obtain an exemption number from the Department of Revenue for this project and each subcontractor is required to obtain one under the general contractor.
15. QUANTITIES: Quantities stated in the bid schedule and construction documents are estimates only and may increase or decrease during construction. The contractor will perform the required quantity of work based on the unit prices stated in the Bid Schedule except as provided in Section 4.2 of the "General Conditions for Capital Construction."
16. WORK STOPPAGE: Work stoppage is a possibility. The contractor must request all shutdowns or stoppages in writing. If a shutdown is granted, the Division will pay for only work that has been totally completed. No advanced payment of mobilization will be made.
17. CONSTRUCTION SCHEDULE: The Contractor shall submit a written project schedule and supporting data to the Project Manager as soon as possible after the receipt of the Notice of Award. The schedule shall describe key milestones and duration of project activities. The supporting data for the schedule shall include a complete list of anticipated submittals and due dates, and the key ordering and delivery lead times. The Contractor shall schedule the sequence of construction to consider the delivery of long lead-time items. It shall be the Contractor's responsibility to notify the Project Manager of any problem in conforming to the Contract Documents, Specifications, and Construction Drawings for any element of the proposed improvements prior to its construction.
18. SCHEDULE OF SUBCONTRACTORS, MAJOR EQUIPMENT AND MATERIALS SUPPLIERS: The Contractor shall provide the Owner, prior to the commencement of any Work, a detailed listing of subcontractors and major equipment and materials suppliers indicating their name, address, description of service or equipment and materials being provided, if they

are a woman owned or minority owned business enterprise (WBE/MBE), and their vested monetary interest in the contract. The Contractor shall not award any Work to a subcontractor, transfer or assign any portion of the Contract Work, without the written approval of the Owner. Records shall be maintained throughout the duration of the Contract and periodically submitted at the time the Contractor submits progress payment applications. The Owner will use these records to verify the Contractor's level of indebtedness prior to making final payment.

19. **CONSTRUCTION CONTROL PLAN:** A traffic, excavation, and construction access control plan shall be submitted by the Contractor and approved by the Owner prior to the commencement of work. The disruption to project area visitors shall be kept to a minimum. The plan shall take into consideration all users, including motorists, cyclists, and pedestrians. The Contractor shall provide all lights, signs, barricades, flagmen, or other devices necessary to provide for public safety in accordance with the current United States Department of Transportation's Manual of Uniform Traffic Control Devices.
20. **STORMWATER MANAGEMENT PLAN:** This project will not disturb more than 1 acre of ground, so a State stormwater control permit is not required.
21. Colorado Parks and Wildlife shall not be obligated or liable for any cost incurred by any company or individual reviewing this proposed project or prior to the issuance of a PO/contract approved by the Controller of the State of Colorado or such assistant as he may designate. Any and all costs, to review the project, inspect the proposed construction site, prepare and or submit bids will be the sole responsibility of the bidder.
22. A submission in response to the solicitation acknowledges acceptance by the proposer of all unaltered terms and conditions, as set forth herein. Any proposed exception taken to the State's Terms and Conditions must be clearly and thoroughly identified and supported and acceptable alternatives must be proposed. Failure to do so shall be deemed a waiver of any rights to subsequently raise exception and/or request modification, except as outlined or specified in this solicitation. Submission of exceptions does not guarantee their acceptance, however, and such submittal will be taken into consideration during proposal review and scoring by the evaluation team. The state reserves the right to reject any changes suggested to PO or Contract terms and conditions and award to the next most advantageous qualified responsive vendor.
23. **PROTESTED SOLICITATIONS AND AWARDS:** An aggrieved party may file a protest concerning a material issues(s), at any phase of solicitation, including but not limited to, specifications, award or a disclosure of information marked confidential in the bid. The protest shall be submitted via email to the DNR Procurement Official as noted below within 3 (3) business days after such aggrieved person knows, or should have known, of the facts giving rise thereto. Reference CRS 24-109-102, as amended, and Procurement Rule R-24-109-102-01, et seq.

DNR Procurement Official: Ion Cotsapas, ion.cotsapas@state.co.us

The written protest shall include, as a minimum, the following:

- A. The name and address of the protestor;
- B. Appropriate identification of the procurement by bid or award number;
- C. A statement of the reasons for the protest, and any available exhibits, evidence, or documents substantiating the protest.

24. ACH/EFT PAYMENTS: Contractors are highly encouraged to consider signing up for ACH/EFT payments. ACH/EFT payments provide the advantage of ensuring quick and secure payments for the goods and services that vendors provide to the State. ACH/EFT payments help avoid the unnecessary, and sometimes inevitable delays in mail, and the possibility of lost warrants which will further delay vendor payment. DNR's goal is to pay vendors as soon as possible - signing up for the ACH/EFT is an important step in making this happen. For additional information about signing up for ACH/EFT payments, please contact the Project Manager identified in the Invitation for Bids.

25. In accordance with procurement code and CRS 24-103-904 titled "Purchasing Preference for Environmentally Preferable Products" - bidders responding to this solicitation may seek to qualify for the preference and governmental bodies conducting this solicitation shall award a contract to a bidder who offers environmentally preferable products subject to the condition in the code and procurement rules.

26. ALTERNATIVE PRODUCTS: Certain materials and equipment have been specified by manufacturers' trade names. This was done to establish the minimum quality and type of product desired. Alternatives to the manufacturers' products may be used if the Project Manager determines they are equal. The Award will be based on the products identified in the plans.

27. DAVIS-BACON WAGE LAW:

The subject Project is not a Federal prevailing wage rate project so Davis-Bacon Wage Rates do not apply.

28. WORK HOURS ON PROJECT SITE: All work on this project site will be allowed as follows: 8am to 6pm or otherwise approved by the Project Manager.

29. NOTICE OF CONTRACTOR'S SETTLEMENT: If the project exceeds \$150,000.00, a Final Settlement will be advertised via electronic media on the Colorado VSS website at www.colorado.gov/vss.

30. LIQUIDATED DAMAGES: The parties agree that time is of the essence of the Contract and of the Specifications wherever a definite and certain length of time is fixed for the performances of any act. A daily charge will be made against the Contractor for each calendar day that any work remains uncompleted after the elapse of contract time. This daily charge will be deducted from any money due to the Contractor. This deduction will not be considered a penalty, but as liquidated damages.

The liquidated damages set forth is an amount, agreed to by the Contractor and the Division, as reasonably representing additional project construction administration costs incurred by the Division and projected loss of revenue to the Park if the Contractor fails to complete performance within the contract time. For this project the **Liquidated Damages will be \$307 per day.**

Due account shall be taken of any adjustment of the contract time for completion of the work granted under the provisions of subsection 8.5 of the General Conditions for Capital Construction. Permitting the Contractor to continue and finish the work or any part thereof after elapse of contract time will not operate as a waiver on the part of the Division on any of its rights under the Contract.

Any deduction assessed as liquidated damages under this section shall not relieve the Contractor from liability for any damages or costs resulting from delays to other contractors on the project or other projects caused by a failure of the assessed Contractor to complete the work according to contract times.

31. PERFORMANCE MONITORING CRS §§ 24-106-107:

A. PERFORMANCE MEASURES AND STANDARDS:

Performance measures and Standards as defined in the General Conditions for Capital Construction shall be the basis for this Contract. This includes but is not limited to the following:

- 1) The Contractor shall prepare a project schedule at project startup and continue to update the schedule throughout construction providing detailed justifications for construction delays and schedule changes.
- 2) The Contractor shall submit all required product information as defined in the Construction Drawings & Specifications. In turn, the State's Project Manager shall review and comment within 10 days of receipt.
- 3) The State's Project Manager and the Contractor shall conduct Construction Progress Meetings and Quantity Verification Inspections at least monthly or as otherwise determined necessary during Construction activities.

B. ACCOUNTABILITY:

Project and Contract administration will provide accountability by documenting and evaluating the progression of construction and the ability to follow the agreed upon construction schedule. The Contractor shall report regularly on achievement of the performance measures and standards specified above and failure to do so allows the governmental body to withhold payment until successful completion of all or part of the contract and the achievement of established performance standards. Payment by the State to the Contractor shall be made without delay upon successful completion of all or any part of the contract in accordance with the payment schedule specified in the contract or as otherwise agreed upon by the parties.

C. MONITORING REQUIREMENTS:

The State will evaluate the Contractor's performance by reviewing the monthly progress reports and monthly construction schedule updates provided by the Contractor as well as performing site visits to verify quantities based on the Bid Schedule, inspections to verify quality of work, and reviews of performance data as construction progresses to ensure that the results, objectives and obligations of the contract are met.

D. NONCOMPLIANCE RESOLUTION:

Methods and mechanisms as defined in the General Conditions for Capital Construction shall be used to resolve any situation in which the State's monitoring assessment determines noncompliance, including termination of the contract.

END OF SECTION

CONTRACTOR'S QUALIFICATIONS AND REFERENCES

KEMP-BREEZE SWA - REPLACE RESIDENCE WELLS

Interested firms shall submit as an attachment to the bid proposal one (1) copy of the following document. Failure to provide a completed Contractor's Qualification Statement with the bid proposal will result in disqualification. This format can be expanded up to five (5) total pages maximum.

1. Provide summaries of three (3) similar commercial construction projects in the past five (5) years that include materials, trades, and sitework of similar scope. Include the project name, contract value, and a brief description of the project.

Project #1:
Project #2:
Project #3:

2. Provide reference information for the example projects. Include the owner's name, the reference point of contact, and their phone number.

Project #1:
Project #2:
Project #3:



COLORADO

Parks and Wildlife

Department of Natural Resources

Kemp-Breeze SWA - Replace Residence Wells SPECIFICATIONS

PROJECT I.D. NO. S26WNW-10244
DQ1 2026*271

PRE-BID CONFERENCE: Thursday, January 29, 2026 at 12:00 p.m.

BID OPENING: Tuesday, February 10, 2026 at 1:30 p.m.

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S26WNW-10244

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DIVISION 1 - GENERAL REQUIREMENTS

GENERAL CONDITION:

Please read the most current "General Conditions for Capital Construction" in your possession. They apply to all Divisions of these specifications, accompanying drawings and to this proposed project.

SECTION 01010 - SUMMARY OF WORK

1. LOCATION:

Optional Pre-bid conference: Thursday, January 29, 2026 at 12:00 p.m. at the project site (Meet at Breeze Residence).

Project Address: Kemp-Breeze SWA
447 Co Rd 3
Parshall, CO 80468
Grand County

Project Coordinates: Latitude: 40° 2'59.92"N
Longitude: 106° 10'44.25"W

2. DESCRIPTION OF THE WORK:

The project consists of Drilling New Replacement Wells at the two residences located on the Kemp-Breeze SWA. .

All work shall be in compliance with these specifications and construction drawings.

3. CONSTRUCTION COMMENCEMENT:

The Contractor shall be allowed from the date of approval of contract documents through the CONTRACT START DATE (as indicated on the Notice to Proceed letter) to submit shop drawings and product approvals and order and delivery of materials.

4. ADDITIONAL PROVISIONS:

The work and the compensation, therefore, shall be as covered by these specifications consisting of furnishing all plant, labor, equipment and materials required to perform the work shown on the drawings and listed in the bid schedule, unless otherwise stipulated or approved in writing by the Capital Development Program Manager.

Division field engineering personnel are authorized to supervise the construction of this project in accordance with the previously approved plans and specifications and change orders. All changes in the work shall be approved in writing by the Capital Development Program Manager before being activated in accordance with Section 4, Item 4.2 of the General Conditions for Capital Construction.

The specifications included herein are the Specifications for this project. If there should be a difference between the Specifications and the drawings, the Specifications shall govern.

5. CONTRACTOR RESPONSIBILITY:

Visit the site and determine to your own satisfaction the amount and type of work to be performed to complete the project in accordance with the drawings, specifications and Contract Documents before submitting your bid.

Furnish sufficient qualified help to the Project Manager for setting construction controls.

Before final payment will be made on the completed contract, submit to the Owner all specified warranties and other product warranties.

6. SUBCONTRACTED WORK:

Contractor shall not subcontract any portion of the work without written consent of the Project Manager, which consent shall not unreasonably be withheld. In cases where such consent is given, the Contractor shall perform with his own organization work amounting to not less than 50 percent of the total contract cost, as determined by the Project Manager, except that any items agreed to by the Project Manager as "specialty items" may be performed by subcontract and the cost of any such specialty items so performed by subcontractor may be deducted from the total cost before computing the amount of work required to be performed by the Contractor with his own organization. However, under no circumstances shall less than 20 percent of the total contract cost be performed by the Contractor's organization after deduction of specialty items.

7. SITE LAYOUT AND STAKING:

Location points for the work will be defined with stakes and/or other means of identification prior to the start of construction. These location points are shown on the drawings, but may be modified on the site by the Project Manager.

8. CONSTRUCTION LIMITS:

At the commencement of construction, the Project Manager will designate the area allowed for the construction process. Restrict work to that designated area. Any changes deemed necessary shall be discussed with and approved by the Project Manager.

9. MARSHALLING AND ACCESS:

Limits and access to the site for use: before taking possession and use of the site, meet with the Project Manager to determine the marshalling area(s) and access points to be used to execute the work. Limit access and marshalling areas agreed to at that meeting. Obtain written permission from the Division of any changes other than first agreed upon. Upon completion of all work, restore all areas to original or improved conditions.

10. JOB CONDITIONS:

Examine the site, determine the nature of conditions to be encountered and accept the site as found upon the examination. Examination must be made prior to bidding as no

additional compensation will be considered after receipt of bids for existing conditions which are required to be worked, adapted, or modified to these specifications.

11. BUILDING CODES:

Local city or county building codes shall be used for all construction. Where there is no local authority and/or code, the current codes required by the Office of the State Architect, State Electrical Board or State Plumbing Board shall be utilized. Appropriate inspections and certificates shall be obtained from the state or local inspector. See relative specification section(s) for additional detail.

12. PROTECTION AND SAFETY PRACTICE:

I. General:

All work shall be carried out in a safe manner in accordance with local codes and the safety requirements of the Colorado State Division of Labor.

II. Contactor shall be required to conform to all industry standard safety requirements as well as OSHA requirements (i.e. Confined Space Entry, etc.) in effect at the time of construction.

III. Existing Utilities:

Colorado SB 93-155 requires that anyone that engages in any type of excavation must provide advance notice to the underground facility owners. Prior to any moving or excavating of earth, the Contractor shall call the Utility Notification Center of Colorado (UNCC) or "Common Ground Alliance" (CGA) - the "Call Before You Dig" number - at 811. Utility owners have three business days to perform locates. If facilities are not marked within the three business days, you are required to call back to UNCC and process a Second Notice Request. UNCC encourages **both Contractors and Sub-Contractors** to obtain a locate ticket. A "no response" from the utility owner does not allow the Contractor to start digging. **Notify the Project Manager** when working near utility lines or appurtenances.

IV. Surface Drainage:

Provide for surface drainage during the construction period in a manner to avoid creating a nuisance to adjacent properties.

V. Location Markers:

Carefully maintain and protect all bench marks, corner monuments and other points. If disturbed or destroyed, replace at no cost to the Owner as directed by the Project Manager.

13. TRAFFIC MAINTENANCE:

Existing roads in the construction area shall be kept open to all traffic by the Contractor and maintained in a condition that will adequately accommodate traffic. No work that interferes or conflicts with traffic or existing access to the roadway surface shall be performed until a

plan and schedule for the satisfactory handling of traffic has been submitted by the Contractor and approved by the Project Manager.

Construction signing for traffic control shall conform to the Colorado Department of Transportation manual on uniform traffic control devices.

SECTION 01023 - MINOR CONTRACT REVISION

1. SCOPE OF WORK:

Furnish all labor, materials and equipment required as additional work for completion of the project.

2. WORK INCLUDED:

The work shall include unanticipated extra work in excess of the quantities included in the bid schedule.

3. PAYMENT:

Payment for minor contract revisions shall be made at the contract unit price, negotiated basis or force account in accordance with Section 9.4 of the General Conditions for Capital Construction.

SECTION 01200 - CONSTRUCTION MEETINGS

1. PRECONSTRUCTION CONFERENCE:

The Contractor or his representative after award of the contract shall attend a preconstruction conference to be held at the Colorado Parks and Wildlife regional office, Denver office or other office in proximity to the project as designated by the Project Manager.

SECTION 01300 - SUBMITTALS

1. Provide the manufacturer's literature for products specified or approved equal products as stated in Section 6 of the General Conditions for Capital Construction.
2. The following is the list of required submittals for this Contract. Refer to each Contract Section for any additional requirements for each submittal.

SECTION	TITLE	SUBMITTAL DESCRIPTION	DATE (RECEIVED)/ RETURNED	STATUS
01310	CONSTRUCTION SCHEDULES	Schedule of Construction		

SECTION	TITLE	SUBMITTAL DESCRIPTION	DATE (RECEIVED)/ RETURNED	STATUS
01720	AS-CONSTRUCTED AND RECORD DOCUMENTS	Construction drawings and technical specifications indicating changes to the original project design		
02670	WATER WELLS	Well Logs		
		Pump Test Data		
		Flow Rate Data		
		Daily Records		
		Written Well Construction Sequence Outline		
		Grout Mix		
		Gravel Pack Gradation		
		Well Screen Slot Sizing		
		Drawing Showing Final Location of All Items		

SECTION 01310 - CONSTRUCTION SCHEDULES

1. CONSTRUCTION SCHEDULE SUBMITTAL:

Submit to the Project Manager, 15 calendar days before commencing construction, a schedule of construction. The schedule shall include provisions for time necessary to acquire and provide shop drawings and product submittals, the allowed period for submittal review, time required for ordering and delivery of materials, a normal time period allowed based on climate, location of project, season of year, weather patterns for temperature, and precipitation conditions which reasonably will hinder or prevent construction progress.

The construction schedule shall be updated within 7 calendar days after starting work or upon issuance of any Contract Modification which substantially affects the scheduling, and monthly thereafter until completion.

Newly updated construction schedules shall be forwarded to the Project Manager, as directed, immediately upon preparation.

2. PRODUCT DELIVERY:

Order products in a timely, properly sequenced manner so that delivery schedule of products corresponds with anticipated installation periods of these products.

SECTION 01500 - TEMPORARY UTILITIES AND CONTROLS

1. TEMPORARY ELECTRIC FACILITIES:

Contractor shall provide and maintain during the course and progress of the contract work all electrical power and wiring requirements to facilitate the work of all trades and services associated with the contract work.

2. FIRE PROTECTION:

Fire Plan:

- I. Maintain, at least, two all purpose 10 lb. fire extinguishers at each work zone at the construction site. Maintain the site in an orderly condition to prevent fire hazards.
- II. The Contractor shall do everything reasonable within its power and shall require its employees, subcontractors and employees of subcontractors to do everything reasonable within their power to prevent and suppress fires on or near the lands to be occupied under this project. The Contractor is responsible for all suppression costs and resource damage for any fire resulting from its operations and practices.
- III. The Contractor is responsible to insure that each employee, subcontractor, or any other individual or company working on the project site is aware of the provisions of this fire plan, is familiar with the location and proper use of firefighting equipment, and conducts themselves in a fire safe manner.
- IV. No material shall be disposed of by burning in open fires.
- V. Exhaust systems of vehicles and engine generators shall have an acceptable muffler and shall be in proper working condition. All motorized equipment and machinery shall be equipped with the spark arresters.
- VI. Fire extinguishers required, Type ABC:

One 2 lbs. Per pickup, or one 5 lb. For trucks over 1 Ton GW.

One 10 lb. per dozer, motor patrol, scraper or other earthmoving equipment.
- VII. Vehicles shall be parked only in cleared, approved areas.
- VIII. All smoking shall be done only inside of vehicles or in areas cleared of flammable material.

- IX. Welding - Welding is herein used to mean: electric arc welding; arc or gas cutting or heating; gas welding; grinding of metal; use of any flammable gas, carbon or hydrocarbon fuel for heating or forging metal.

No welding shall be conducted within 100 feet of fuel storage areas.

All welding shall be done within an area cleared of all flammable vegetation and materials for a minimum radius of 30 feet from the welding operation.

- X. All trucks operated on the project area shall be equipped with a round-pointed shovel, mounted where it is readily accessible for suppression of fires.

- XI. Refueling:

Special care will be taken to prevent fires when refueling tractors and other equipment. Preferably, equipment should be moved to an area of mineral soil before refueling.

- XVI. Oil Filters, Cartridges and Oily Rags:

Used and discarded oil filters, cartridges and oil rags or waste will be removed from the site. Glass jugs or bottles will not be used for gas, oil or water containers.

- XVII. Storage of Inflammables:

Fuels, lubricants and/or other highly inflammable material will be stored either in a separate building, or "job box" type container and/or approved containers. If materials are not stored in a separate building there must be a basin to catch spills. Storage buildings or sites shall be a minimum distance of 50 feet from other structures. Storage buildings shall be adequately posed to warn of the inflammables and to prohibit smoking in or around the building.

3. HERITAGE RESOURCES:

All persons associated with operations under this authorization must be informed that any objects or sites of cultural, paleontological, or scientific value such as historic or prehistoric resources, graves or grave markers, human remains, ruins, cabins, rock art, fossils, or artifacts shall not be damaged, destroyed, removed, moved, or disturbed. If in connection with operations under this authorization any of the above resources are encountered, the proponent shall immediately suspend all activities in the immediate vicinity of the discovery that might further disturb such materials and notify the Project Manager of the findings. The discovery must be protected until notified in writing to proceed by the Project Manager. (36 CFR 800.110 & 112, 43 CFR 10.4)

4. TEMPORARY SANITARY FACILITIES:

Contractor shall provide adequate temporary sanitary conveniences for the use of all employees and persons engaged on the work, including subcontractors, Owner, Project Manager, and their employees, as required by law, ordinances, or regulations of public authorities having jurisdiction.

Toilet facilities shall be enclosed chemical toilets, or water closets and urinals connected to a holding tank, and shall meet with the approval of State and County authorities. Open pit or trench latrines will not be permitted.

5. TEMPORARY WATER:

Potable water shall be provided by the Contractor at Contractor's expense. No potable water is available on the site.

6. TEMPORARY HEAT:

Contractor shall provide, at his own expense, all temporary heat as necessary for the proper installation of all work, equipment, and materials and for the protection of all work and materials against injury from dampness, cold, and freezing. Fuel, equipment, and methods of heating shall be in accordance with federal, state, and local regulations.

7. EXTERIOR STORAGE:

All operations of the Contractor, including storage of materials, shall be confined to areas approved by the Project Manager. Contractor shall be liable for any and all damage caused by him during such use by him of property of the Owner or other parties. Contractor shall save the Owner, its officers and agents, and the Project Manager and his employees free and harmless from liability of any nature or kind arising from any use, trespass, or damage occasioned by his operations on premises of third persons or parties.

8. TEMPORARY TELEPHONE SERVICE:

The Contractor shall maintain an operating cell phone and be available by phone during work hours assuming available cell phone service.

9. FIRST AID FACILITIES:

A first aid station shall be provided to serve all personnel at the work site.

10. SECURITY:

The Contractor shall make all necessary provisions and be responsible for the security of the contract work and the work site until final inspection and acceptance of the contract work.

SECTION 01710 - PROJECT CLEANING

All areas shall be cleared and cleaned upon completion of work at all construction site locations. All debris and construction materials scattered and blown about the site shall be gathered, returned and secured to their proper location or disposed of during the construction process and upon completion.

SECTION 01720 - AS-CONSTRUCTED AND RECORD DOCUMENTS

1. SCOPE OF WORK:

Maintaining and providing As-Constructed and Record documents for the work described in project drawings and specifications.

2. WORK INCLUDED:

The work shall include, but is not necessarily limited to, maintaining a clear and concise set of construction documents clearly indicating changes to the original project design. Contractor shall provide all necessary measurements, survey, and product changes to indicate As-Constructed conditions for the each element of the project.

3. PAYMENT:

- I. Payment for As-Constructed and Record documents shall not be made as a line item but shall be included in Mobilization.

4. SUBMITTALS:

Refer to Section 01300 - Submittals, for requirements. Final payment will not be made until As-Constructed and Record documents are received and accepted as complete by the Project Manager.

5. MAINTENANCE OF DOCUMENTS:

- I. Store documents in clean, dry area separate from documents used for construction.
- II. Documents shall be made available for inspection by Project Manager upon request.

6. RECORDING:

- I. The Project Manager will provide the contractor one set of design drawings and specifications to record information.
- II. Label each drawing sheet "AS-CONSTRUCTED" and cover sheet of specifications in neat large printed letters.
- III. Record information concurrently with construction progress.
 - A. Do not backfill work until required information is recorded.
 - B. Use dark pen or pencil. Ink shall not be water based and lettering shall be legible and not subject to easy smearing.
- IV. Mark drawings to record actual construction.
 - A. Field dimensions, elevations, and details.

- B. Changes made by Project Manager in approved modifications.
- C. Details not on original drawings.
- D. Horizontal and vertical locations of underground facilities (pipelines, electric line, valves, fittings, etc.) and appurtenances referenced to a minimum of two permanent surface improvements or project coordinates/datum.

End of Section

End of General Requirements

SECTION 02050 - MOBILIZATION

1. SCOPE OF WORK:

Furnish all labor, materials and equipment required to complete the work of the noted Sections of this Division described herein and on the drawings.

2. WORK INCLUDED:

The work shall include, but is not necessarily limited to moving onto and off the site all the equipment and personnel required. It also includes cleaning up the site upon completion of the Contract.

3. PAYMENT:

- I. Payment for mobilization will be made on a contract lump sum basis as shown in the Bid Schedule. The lump sum price bid will include complete mobilization and demobilization regardless of the number of times the equipment is moved or additional equipment transported to the construction site.

Of the lump sum price bid, 60% will be paid on the first month's pay estimate. The remaining 40% will be paid when the equipment is removed from the site and after the final cleanup has been completed and approved.

- II. Mobilization shall include the obtaining of all permits, insurance, and bonds, and the moving onto the site of all plant and equipment; for furnishing and erecting plants, temporary buildings, and other construction facilities; all as required for the proper performance and completion of the work. Such work shall include but not be limited to the following principal items:

- A. Moving onto the site of all the Contractor's equipment required for the first month's operations.
- B. Installing temporary construction power and wiring.
- C. Establish fire protection system.
- D. Provide on-site sanitary facilities as specified.
- E. Arrange for and erect the Contractor's work and storage area.
- F. Submit all required insurance certificates and bonds.
- G. Obtain any required permits.
- H. Post all required OSHA notices and establish on-site safety programs.
- I. Have the Contractor's superintendent at job site full time.
- J. Construction schedule.
- K. List of any subcontractors.

- L. General cleanup of the project area.
- M. Shop drawings and product submittals.
- N. Traffic control, roadway signage and barricading if necessary.
- O. Maintaining and submitting As-Constructed and Record documents per specifications.

*

End of Section

SECTION 02279 - WATER QUALITY CONTROL

1. SCOPE OF WORK:

Furnish all labor, materials and equipment required to complete the work of the noted Sections of this Division described herein and on the drawings.

2. WORK INCLUDED:

The work shall include, but is not necessarily limited to, erosion control, and disposal of water resulting from dewatering operations as specified.

3. MEASUREMENT:

- I. Erosion control and disposal of water resulting from dewatering operations shall be considered as incidental to the construction and all costs thereof shall be included in the related construction.
- II. Temporary erosion and pollution control measures required due to the Contractor's negligence, carelessness, or failure to install permanent controls shall be performed at the Contractor's expense.

4. QUALITY CONTROL:

- I. The Contractor shall comply with the "Colorado Water Quality Control Act," Title 25, Article 8, CRS "Protection of Fishing Streams", Title 33, Article 5, CRS; "Clean Water Act", 33 USC 1344; regulations promulgated; certifications issued; and to the following requirements.
 - A. The Contractor shall provide immediate permanent or temporary pollution control measures to prevent contamination of adjacent streams, lakes, ponds, or other watercourses or water impoundments areas.
 - B. Cut slopes shall be seeded and mulched as the excavation proceeds. The surface area of erodible earth material exposed at one time shall not exceed 750,000 square feet for clearing and grubbing and 750,000 for earthwork operations.
 - C. Temporary pollution control shall include conducting required dewatering of excavations in a manner that avoids pollution and erosion. Water from dewatering operations shall not be discharged into natural streams or waterway, into irrigation ditches or canals, or into storm sewers, unless allowed by a point source discharge permit. Discharge into sanitary sewers shall not be allowed unless written permission of the Owner or its controlling authority is obtained and this disposal method is approved by the Project Manager. The water from dewatering operations shall be contained in basins for dissipation by percolation or evaporation, shall be hauled away from the project for disposal in accordance with applicable laws and regulations, or it shall be applied to approved non-wetland vegetated areas and allowed to soak into the soil. Sprinkler or aerial application shall not be used unless approved by the Project Manager. Depending upon the quality of the water, application of water to vegetated

areas may require written concurrence from the Colorado Department of Public Health and Environment. The Contractor shall ascertain the water quality, and when applicable, per the Colorado Department of Public Health and Environment's regulations (5CCR 1002-8 and others,) obtain the necessary concurrences.

- D. Temporary pollution control shall include construction work outside the project area where necessary for borrow pits, haul roads and equipment storage sites.
- E. The Contractor shall prepare schedules for accomplishing temporary and permanent erosion control work and submit them for acceptance at the preconstruction conference. The schedules for the proposed method of erosion control shall include all construction activities within the project, haul roads, borrow pits, storage and plant sites, and the plan for disposal of waste material. Work shall not be started until the temporary erosion control schedules and methods of operations have been accepted.
- F. The Contractor shall incorporate all permanent erosion control features into the project at the earliest practicable time as outlined in the accepted schedule. Erosion control features shall be maintained by the Contractor until the project is accepted.
- G. In the event of conflict between these requirements and water quality control laws, rules, or regulations of other Federal, State or local agencies, the more restrictive laws, rules, or regulations shall apply.

5. PRODUCTS:

I. Materials:

Mulches may be hay, straw, fiber mats, netting, wood cellulose, corn stalks (shredded or chopped), corn cobs (shredded or chopped), bark, wood chips, or other suitable material, and shall be reasonably clean and free of noxious weeds and deleterious materials.

Slope drains may be constructed of pipe, fiber mats, rubble, portland cement concrete, bituminous concrete, plastic sheeting, or other acceptable materials.

Grass shall be a quick growing species (such as rye grass, or cereal grasses) suitable to the area, which will provide temporary cover and will not later compete with the grasses sown for permanent cover.

Fertilizer and soil conditioners shall be acceptable standard commercial grade.

6. EXECUTION:

I. Water Quality Control:

A. Description:

The water quality control work shall consist of temporary measures needed to control water pollution. These temporary measures shall include the installation of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods, at the locations necessary to control erosion and water pollution.

Temporary pollution controls shall be coordinated with the permanent erosion control features as shown on the plans.

B. Requirements:

1. All reasonable steps shall be taken to insure that the Contractor's provisions for the control of erosion and sedimentation and the protection of water quality comply with applicable standards, permit conditions, and regulations of appropriate agencies.
2. Permanent erosion and sediment control measures shall be installed at the earliest practicable time. One of the first construction activities shall be the placement of permanent and temporary erosion and sediment control measures around the perimeter of the project or the initial work areas.
3. Temporary erosion and sediment control measures shall be coordinated with permanent measures to assure economical, effective, and continuous control throughout the construction phase.
4. Erosion and sediment control measures shall be continuously maintained to perform their intended function during construction of the project.
5. Construction operations in rivers, streams, lakes, or other bodies of water shall be restricted to:
 - a. Channel change areas designated on the plans.
 - b. Areas designated on the plans which must be entered to construct structures or erosion and sediment control measures; and
 - c. Areas where waters must be forded no more than four times per day to facilitate construction. Fording waters more than four times per day will not be permitted; temporary bridges or other structures shall be constructed where more than four crossings per day are required.
6. Pollutant byproducts of construction, solids, sludges, pollutants removed in the course of treatment of wastewater, and material from sediment traps shall be handled, stockpiled, or disposed of in such a manner so entry into any watercourse or impoundment is prevented.
7. The use of chemicals such as soil stabilizers, dust palliatives, sterilants, growth inhibitors, fertilizers, deicing salts, etc., during

construction shall be in accordance with the manufacturer's recommended application rates, frequency, and instructions. These chemicals shall not be used within 50 feet of the ordinary high water line of any water course or impoundment.

8. When a project is subject to a water quality permit, the quantities of discharges, locations of discharges, composition of discharges, and quantities of dredging and fills will be stated in the permit. If the Contractor anticipates a change from permit conditions, or if construction activities result in noncompliance with permit conditions, the Contractor shall detail the anticipated changes or noncompliance in a written report to the Project Manager. The submission of the report shall be within five days from the time the Contractor becomes aware of change or noncompliance. Within 10 days after receipt of the report, the Project Manager will approve or disapprove the request for change, or detail the course of action after noncompliance.
9. Any diversion from, or bypass of, facilities necessary to maintain compliance with the terms and conditions contained in these Specifications is prohibited except, (1) where unavoidable to prevent loss of life or severe property damage, or (2) where excessive storm drainage or runoff would damage the facilities. If diversion or bypass of the facilities occurs, the Contractor shall notify the Project Manager in writing within five days of the occurrence. The Project Manager will assess the damage, if any, resulting from the occurrence, and detail a course of action.
10. Areas where fuels, lubricants, and other petroleum distillants are stored shall be restored to their original condition. Equipment servicing shall occur within approved designated areas.
11. The Contractor shall not place plastic concrete into wetlands, watercourses, or impoundments.
12. The construction activities shall not impair Indian tribal rights, including but not limited to, water rights, and treaty fishing and hunting rights.
13. The construction activity shall not disrupt the movement of those species of aquatic life indigenous to the waterbody.
14. The practices listed below shall be followed to minimize the pollution of wetlands, watercourses, and impoundments.
 - a. Discharge of dredged or fill material into waterbodies or wetlands shall not be permitted.
 - b. Discharges into spawning areas during spawning seasons shall not be permitted.
 - c. Adverse impacts on the aquatic system caused by the

accelerated passage of water or the restriction of its flow shall be minimized.

- d. Heavy equipment working in wetlands shall be on mats to prevent undue disturbance and damage to the wetlands area.
 - e. Discharge into breeding areas of migratory waterfowl shall not be permitted.
 - f. All temporary fills shall be removed in their entirety.
 - g. Heavy equipment use in or around waterbodies or wetlands shall be of such type that will not produce environmental damage
15. Requests for clarification of the permit or certification provisions shall be directed to the Project Manager.

End of Section

SECTION 02410 - DEWATERING

1. SCOPE OF WORK:

Furnish all labor, materials and equipment required to complete the work of the noted Sections of this Division described herein and on the drawings.

2. WORK INCLUDED:

The work shall include, but is not necessarily limited to, dewatering as specified.

3. RELATED SECTIONS:

Section 02279 - Water Quality Control.

4. MEASUREMENT:

- I. Dewatering shall be considered as incidental to the construction and all costs thereof shall be included in the related construction.

5. PERMITS

The contractor shall notify the local Water Commissioner with the project location, dewatering plan, duration, and anticipated groundwater flow volumes before starting any dewatering.

The contractor shall get any required Discharge Permits from the Department of Public Health and Environment before starting any dewatering. The contractor shall give the Project Manager a copy of any permits received for this project.

6. QUALITY CONTROL:

- I. It shall be the sole responsibility of the Contractor to control the rate and effect of the dewatering in such a manner as to avoid all objectionable settlement and subsidence.
- II. All dewatering operations shall be adequate to assure the integrity of the finished project and shall be the responsibility of the Contractor.
- III. Where critical structures or facilities exist immediately adjacent to areas of proposed dewatering, reference points should be established and observed at frequent intervals to detect any settlement which may develop. Should significant settlement be observed, recharge wells could be placed between the structure and the trench and water pumped under pressure back into the soil.
- IV. Responsibility for conducting the dewatering operation in a manner which will protect adjacent structures and facilities rests solely with the Contractor. The cost of repairing any damage to adjacent structures and restoration of facilities shall be the responsibility of the Contractor.

7. PRODUCTS:

I. Equipment:

Before operations begin, the Contractor shall have available on the site sufficient pumping equipment and/or other machinery to assure that the operation of the dewatering system can be maintained.

8. EXECUTION:

- I. Dewatering shall be sufficient to ensure water does not interfere with maintaining proper soil moisture for compaction of backfill.
- II. The normal water table shall be restored to its natural level in such a manner as to not disturb foundations or other construction.
- III. If well points or wells are used, they shall be adequately spaced to provide the necessary dewatering and shall be sandpacked and/or other means used to prevent pumping of fine sands or silts from the subsurface. A continual check by the Contractor shall be maintained to insure that the subsurface soils are not being removed by the dewatering operation.
- IV. Permanent piping systems and settling ponds may be incorporated in the dewatering system. Any damage to facilities caused by such use shall be repaired by and at the expense of the Contractor. Facilities shall be flushed and/or cleaned by the Contractor and left in a suitable condition as approved by the Project Manager.

End of Section

SECTION 02670 - WATER WELLS

1. SCOPE OF WORK:

Furnish all labor, materials and equipment required to complete the work of the noted Sections of this Division described herein and on the drawings.

2. WORK INCLUDED:

The work shall include, but is not necessarily limited to, drilling a well hole, obtaining samples, and construction of the well.

3. MEASUREMENTS:

I. Drilling, Well Casing and Screen:

Quantities shall be measured for drilling, casing and screen by the linear foot.

Quantities shall not be measured for concrete grouting, fittings, installation of the required equipment and hardware or required fabrications, but included as a portion of the drilling and casing.

II. Well Development:

Quantities shall be measured for the development of the well for the duration of the well development.

III. Well Abandonment:

Well abandonment for the complete plugging of the existing well including pump removal shall be measured.

IV. Pumping Tests:

The test pumping shall be measured for the duration of the pump test and the recovery test.

4. SUBMITTALS:

Refer to Section 01300 - Submittals, for requirements.

5. QUALITY ASSURANCE:

The contractor performing the well installation shall be licensed with the State of Colorado to perform such work. The well contractor will be responsible for obtaining all necessary permits associated with the well installation.

6. MATERIALS:

The materials required for the construction of this well shall be in accordance with the following requirements:

- I. Drilling Fluid: It is the Contractor's responsibility that equipment for measuring fluid properties shall be immediately available at the rig site.

The choice of the drilling fluid and its properties and control will be the complete responsibility of the Contractor.

II. Well Casing:

A. Steel:

Well casing shall be new, be of API standard 5L, Grade A, B, or ASA B36.10 Schedule 30 or 40 steel and conform to an appropriate standard such as AWWA, ASTM or API. The casing shall be joined by either (1) welding in accordance with the standards of the American Welding Society or (2) threaded and coupled joints.

B. PVC:

PVC casing shall be PVC Type 1, Grade 1, Schedule 80 new first class material meeting ASTM D 1784 and ASTM F 480. It shall be connected by threaded joints.

III. Grout:

A. Cement Grout:

A mixture of portland cement (ASTM C 150) and not more than 6 gallons of water per bag (one cubic foot or 94 lbs.) of cement. The use of bentonite (up to 2% by weight of cement) to reduce shrinkage or other admixtures (ASTM C 494) to reduce permeability, increase fluidity, and/or control time of set must be approved by the Project Manager. The water used shall be fresh, clear and potable. If the water is questionable it should be tested in accordance with ASTM C 109.

B. Concrete Grout:

A mixture of portland cement, sand and water in the proportion of one bag of cement and an equal volume of dry sand to not more than 6 gallons of clean water.

IV. Well Screen:

A. Steel:

The well screen and its end fittings shall be fabricated entirely of Type 304 stainless steel, Johnson, or approved equal. The well screen shall be of the continuous slot wire wound type.

B. PVC:

The well screen shall be Schedule 40 machine slotted, Monoflex Inc., Johnson, or approved equal.

The screen shall be connected to the solid casing of the same O.D. by threaded couplings.

- C. The bottom of the screen shall be fitted with a flat plate of the same material and thickness as the casing.
- D. The well screen aperture openings shall be approved by the Project Manager. It shall have sufficient open area to transmit the desired yield of 15 gpm at an aperture entrance velocity equal to or less than 0.1 feet per second and be sized to retain between 40 and 50 percent of the aquifer material.

V. Gravel Pack Material:

The gravel shall consist of clean, well-rounded grains that are smooth and uniform. The material should be mostly siliceous with a limit of 5% by weight of calcareous material.

The grading of the gravel pack material shall be selected and approved by the Project Manager. To accomplish this he shall use the analyses of the formation samples and the driller's log. It shall be designed in accordance with the Ground Water Manual, 1981 Bureau of Reclamation.

7. TESTING OF FORMATION:

- I. The Contractor shall submit all samples to an approved laboratory whereby the following tests will be conducted:
 - A. Formation samples:
 - 1. Sieve analyses using five or more standard sieves.
 - 2. Determination of effective size, uniformity coefficient and modal size.
 - 3. Percent clay.
 - 4. Permeability.

8. CONSTRUCTION OF THE WELL:

NOTE: Suggested here is a guideline to rotary drilling well construction. Method of construction is left to the Contractor. Submit a written outline of the well construction sequence to the Project Manager for approval.

I. General:

The Contractor shall drill the well at the exact location designated by the Project Manager. The Contractor shall use rotary drilling equipment to drill the hole and install the materials previously described in order that the finished well shall conform to the design illustrated in the drawing and any applicable

standards established by local, state or federal regulatory agencies. The mud pits (or tanks) required should be positioned at least 6 feet from the well.

The Contractor shall dispose of drilling mud, cuttings and discharged water in a manner approved by the Project Manager so as not to create damage to public or property. During the test pumping, however, the water discharged shall be piped to a point of overland drainage, be it lake, stream or man-made drainage channel or canal.

If it is necessary to discontinue work on a well when partially completed by reason of such well being out of line, jammed with tools, or by reason of negligence, immediately start drilling another well at a nearby location to be designated by the Project Manager. No payment for work done or materials furnished for such abandoned wells will be made.

II. Setting the Screen and Casing:

The screen and casing assembly shall be properly joined and lowered into the well. If welded, the procedures conforming to the practices of the American Welding Society should be followed. The assembly should be supported at the top so the bottom is at least one foot above the bottom of the hole and the entire assembly is under tension during the placing of the gravel pack. Centering guides should be placed as needed on the screen and inner casing.

III. Alignment:

Set the casing in the well sufficiently straight and plumb to allow the pump to be installed with ease and in such a manner that the pump will operate satisfactorily, and will not be damaged by the casing being out of alignment. If desired, the Project Manager shall require a check of the straightness by lowering a section of Schedule 40 pipe, 30 feet long, of an outside diameter one inch smaller than the inside diameter of the well casing. The well shall not be out of plumb more than 1° at any depth. A check of the plumbness may be required by standard methods, approved by the Project Manager.

IV. Gravel Packing:

The gravel pack shall be introduced in such a manner that it is readily known (with 10% accuracy) how much volume (or weight) of gravel is the hole. It shall be placed in a manner uniform and continuous such that hydraulic segregation and bridging are minimized or eliminated.

V. Grouting:

Prior to grouting the Project Manager may direct the flushing of the annular space with the drilling fluid or clean water. Grouting of the outer casing shall be accomplished in the presence of the Project Manager. It should be carried out in one continuous operation, filling the annular space between the drilled hole and the casing from the bottom of the casing to the land surface. The actual method of placement should be selected from Section A1-8.4, AWWA A 100. The grout returning to the surface shall be wasted until the Project Manager determines that the grouting has been satisfactory.

- A. No further work shall be done on the well until the grout has firmly set (a minimum of 72 hours for neat cement and 24 hours for quick-setting cement).

9. DEVELOPING THE WELL:

Furnish all necessary equipment and materials for proper development of the well. The development would include any one or more of the following methods, as approved by the Project Manager.

- I. Surging with the use of an air compressor.
- II. High pressure jetting with water.
- III. Surging by the use of a surge block.
- IV. Pumping the well.

The development of the well shall be to remove (a) the native silts and clays deposited on the aquifer face during the drilling (b) the inorganic drilling mud and (c) the predetermined finer fraction of the gravel pack, all of which shall be done to insure that the maximum possible specific capacity will be obtained from the completed well.

10. TESTING THE WELL:

The well will be test pumped for a period of 12 hours or until water levels stabilize over a three hour period at a constant rate of 15 gpm. The discharge of the test pump will be measured via a circular orifice meter and the water level measured with a suitable measuring device to the nearest 1/4 inch. Measurements of the yield and water level will be made every minute for the first 10 minutes of the test, every 5 minutes for the next 90 minutes and then every 15 minutes until 3 hours have passed. Measurements between 3 and 5 hours should be made 30 minutes apart and then after 5 hours and until the end of the test they can be made hourly.

After the pump is shut down, recovery measurements of the water level should be made for a period equal to at least one-half of the pumping period or until the water level has reached the original static level. The schedule of the recovery measurements shall be made at the same time intervals that the measurements were made during the pumping portion of the test.

A meter totalizing flow may be installed on the discharge side of the pump.

11. DISINFECTING THE WELL:

The well shall be disinfected according to the procedures established by the State of Colorado.

12. CAPPING THE WELL:

At all times during the progress of the work, the Contractor shall use all reasonable measures to prevent either tampering with the well or the entrance of foreign matter

into it. The Contractor shall be responsible for any objectionable material that may fall into the well and its consequences until the completion and acceptance of the work by the Project Manager.

13. SAMPLES AND RECORDS:

Keep and furnish a sample of material from each five feet of drilling and at every significant change of formation.

- I. Furnish a suitable container for enclosing the samples plainly labeled with the depth of the top and bottom of the formation sample.
- II. A daily record shall be kept of the drilling progress, formations encountered, water encountered, and other information which is of interest.
- III. Two copies of the driller's log, signed and dated by the well driller (or drilling machine operator) will be given to the Project Manager. The log will record the materials penetrated to the nearest foot.
- IV. All static water level measurements will be recorded. This record, along with the times that the measurements were made, will be given to the Project Manager.
- V. A complete casing and screen location record will be made by the driller and given to the Project Manager. This will show the individual lengths of sections of casing and screen and the locations of packers, plugs, and seals.
- VI. Pumping test data will be supplied to the Project Manager from all pumping tests conducted on the well and test well. These will show dates, water levels, discharge rates and times of stopping and starting the pump.

14. WELL COMPLETION:

The well shall be deemed completed only when the conditions of the Contract have been met and the required cleanup of the site upon which the well is to be located has been accomplished.

15. WELL ABANDONMENT:

I. Pump Removal:

The existing well pump shall be pulled from the well casing and disposed of off-site.

II. Regulations and Permits:

The Contractor shall comply with the "Rules and Regulations and Water Well and Pump Installation Contractors Law" as set forth by the State of Colorado Division of Water Resources, State Board of Examiners. Completion of the well abandonment affidavit of the State of Colorado, shall be documented and returned to the Division of Water Resources, 1313 Sherman St., Room 818, Denver, Colorado 80203.

III. Abandonment Procedures:

Small diameter wells formerly producing from unconfined material shall be abandoned by filling with sand or gravel to the static water level, then with inert materials to within 10 feet of the surface. The top 10 feet shall be filled with concrete, neat cement, or other approved material.

End of Section