

**PROFESSIONAL SERVICES CONTRACT
BETWEEN
LARAMIE COUNTY, WYOMING & TERRACON CONSULTANTS, INC.**

THIS AGREEMENT is made and entered into by and between Laramie County, Wyoming, P.O. Box 608, Cheyenne, Wyoming 82003-0608, (ACOUNTY®) and Terracon Consultants, Inc., 1505 Old Happy Jack Rd., Cheyenne, Wyoming 82001 (ACONTRACTOR®). The parties agree as follows:

I. PURPOSE

The purpose of this Agreement is to provide professional services for construction materials testing and observation of the Laramie County Detention Center during the construction and expansion of the Detention Center in Cheyenne, Wyoming.

II. TERM

This Agreement shall commence on the date last executed by the duly authorized representatives of the parties to this Agreement, and shall remain in full force and effect until completely performed.

III. PAYMENT

COUNTY shall pay CONTRACTOR an estimated fee of twenty-two thousand, one hundred ninety-eight dollars (\$22,198.00). CONTRACTOR shall bill COUNTY by a properly executed invoice submitted to the Laramie County Clerk. No payment shall be made before the last signature is affixed to this Agreement. Payments shall be in accordance with Wyo. Stat. ' 16-6-602 (as amended).

IV. RESPONSIBILITIES OF CONTRACTOR

A. CONTRACTOR shall provide and complete all of the services as more fully described in the Proposal for Construction Materials Testing and Observation Services ("Attachment A" 10 pages) dated July 05, 2018, attached hereto and fully incorporated herein.

B. CONTRACTOR's professional services shall include but not be limited to field and laboratory testing, to determine if the general contractor's work as tested by CONTRACTOR is in compliance with the project specifications, and is based on plans and specifications described in SHE's Project No. 142685, which is incorporated herein by reference.

C. CONTRACTOR agrees to retain all required records for three (3) years after the County makes final payment and all other matters relating to the Agreement are concluded.

CONTRACTOR agrees to permit access by the COUNTY or any of its duly authorized representatives to any books, documents, papers and records of the CONTRACTOR which are directly pertinent to this specific Agreement for purposes including but not limited to audit, examination, excerpts, and transcriptions. It is agreed that finished or unfinished documents, data or reports, prepared by CONTRACTOR under this contract shall be considered the property of the COUNTY and upon completion of the services to be performed, or upon termination of this Agreement for cause, or for the convenience of the COUNTY, will be turned over to the COUNTY.

V. GENERAL PROVISIONS

A. Independent Contractor: The services to be performed by CONTRACTOR are those of an independent contractor and not as an employee of COUNTY. CONTRACTOR is not eligible for Laramie County Employee benefits and will be treated as an independent contractor for federal tax filing purposes. CONTRACTOR assumes responsibility for its personnel who provide services pursuant to this contract and will make all deductions required of employers by state, federal and local laws and shall maintain liability insurance for each of them. CONTRACTOR is free to perform the same or similar services for others.

B. Acceptance Not Waiver: COUNTY's approval of the reports, and work or materials furnished hereunder shall not in any way relieve CONTRACTOR of responsibility for the technical accuracy of the work. COUNTY approval or acceptance of, or payment for, any of the services shall not be construed to operate as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement.

C. Termination: This Agreement may be terminated (a) by either party at any time for failure of the other party to comply with the terms and conditions of this agreement; (b) by either party, with thirty (30) days' prior written notice to the other party; or (c) upon mutual written agreement by both parties.

D. Entire Agreement: This Agreement (5 pages), Attachment A (Terracon Proposal No. P24181080, 10 pages), Exhibit 1 (SHE Project Description), and Exhibit 2 (Insurance Requirement 6 pages) represent the entire and integrated agreement and understanding between the parties and supersedes all prior negotiations, statements, representations and agreements, whether written or oral.

E. Assignment: Neither this Agreement, nor any rights or obligations hereunder shall be assigned or delegated by a party without the prior written consent of the other party.

F. Modification: This Agreement shall be modified only by a written agreement, duly executed by all parties hereto.

G. Invalidity: If any provision of this Agreement is held invalid or unenforceable by any court of competent jurisdiction, or if the COUNTY is advised of any such actual or potential invalidity or unenforceability, such holding or advice shall not invalidate or render unenforceable

any other provision hereof. It is the express intent of the parties that the provisions of this Agreement are fully severable.

II. Applicable Law and Venue: The parties mutually understand and agree this Agreement shall be governed by and interpreted pursuant to the laws of the State of Wyoming. If any dispute arises between the parties from or concerning this Agreement or the subject matter hereof, any suit or proceeding at law or in equity shall be brought in the District Court of the State of Wyoming, First Judicial District, sitting at Cheyenne, Wyoming. The foregoing provisions of this paragraph are agreed by the parties to be a material inducement to CONTRACTOR and to COUNTY in executing this Agreement. This provision is not intended nor shall it be construed to waive COUNTY's governmental immunity as provided in this Agreement.

I. Contingencies: CONTRACTOR certifies and warrants no gratuities, kick-backs or contingency fees were paid in connection with this Agreement, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this Agreement.

J. Discrimination: All parties agree they will not discriminate against any person who performs work under the terms and conditions of this Agreement because of race, color, gender, creed, handicapping condition, or national origin.

K. ADA Compliance: All parties agree they will not discriminate against a qualified individual with disability, pursuant to a law as set forth in the Americans With Disabilities Act, P.L. 101-336, 42 U.S.C. § 12101, *et seq.*, as amended, and/or any properly promulgated rules and regulations relating thereto.

L. Governmental/Sovereign Immunity: COUNTY does not waive its Governmental/Sovereign Immunity, as provided by any applicable law including Wyo. Stat. ' 1-39-101 *et seq.*, by entering into this Agreement. Further, COUNTY fully retains all immunities and defenses provided by law with regard to any action, whether in tort, contract or any other theory of law, based on this Agreement. Designations of venue, choice of law, enforcement actions, and similar provisions shall not be constructed as a waiver of governmental immunity. The parties agree that any ambiguity as to governmental immunity in this Agreement shall be strictly construed in favor of governmental immunity.

M. Indemnification: To the fullest extent permitted by law, CONTRACTOR agrees to indemnify and hold harmless COUNTY, its elected and appointed officials, employees and volunteers from any and all liability for injuries, damages, claims, penalties, actions, demands or expenses arising from or in connection with work performed by or on behalf of CONTRACTOR for COUNTY except to the extent liability is caused by the sole negligence or willful misconduct of COUNTY or its employees. CONTRACTOR shall carry liability insurance sufficient to cover its obligations under this provision and provide COUNTY with proof of such insurance.

N. Third Parties: The parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Agreement shall not be construed so as to create such

status. Except as provided in ¶ E above, the rights, duties and obligations contained in this Agreement shall operate only between the parties to the Agreement, and shall inure solely to the benefit of the parties to this Agreement.

O. Conflict of Interest: COUNTY and CONTRACTOR affirm, to their knowledge, no CONTRACTOR employee has any personal beneficial interest whatsoever in the agreement described herein. No staff member of CONTRACTOR, compensated either partially or wholly with funds from this Agreement, shall engage in any conduct or activity which would constitute a conflict of interest relative to this Agreement.

P. Force Majeure: Neither party shall be liable to perform under this Agreement if such failure arises out of causes beyond control, and without the fault or the negligence of said party. Such causes may include, but are not restricted to, Act of God or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather. In every case, however, a failure to perform must be beyond the control and without the fault or the negligence of said party.

Q. Limitation on Payment: COUNTY's payment obligation is conditioned upon the availability of funds which are appropriated or allocated for the payment of this obligation. If funds are not allocated and available for the continuance of the services and equipment provided by CONTRACTOR, the Agreement may be terminated by COUNTY at the end of the period for which funds are available. COUNTY shall notify CONTRACTOR at the earliest possible time of the services which will or may be affected by a shortage of funds. At the earliest possible time means at least thirty (30) days before the shortage will affect payment of claims, if COUNTY knows of the shortage at least thirty (30) days in advance. No penalty shall accrue to COUNTY in the event this provision is exercised, and COUNTY shall not be obligated or liable for any future payments due or for any damages as a result of termination under this provision. This provision shall not be interpreted or construed to permit COUNTY to terminate this Agreement in order to acquire similar services from another party.

R. Compliance with Law: CONTRACTOR shall comply with all applicable laws, Regulations and ordinances, whether Federal, State or Local, including but not limited to Wyo. Stat. §§ 16-6-101 through 121, which govern public works contracts.

S. Notices: All notices required and permitted under this Agreement shall be deemed to have been given, if and when deposited in the U.S. Mail, properly stamped and addressed to the party for whom intended at such parties' address listed herein, or when personally delivered personally to such party. A party may change its address for notice hereunder by giving written notice to the other party.

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**Services Contract
Laramie County & Fuel Management Solutions, Inc.**

Signature Page


LARAMIE COUNTY, WYOMING

By: _____ Date _____
K.N. Buck Holmes, Chairman, Laramie County Commissioners

ATTEST:

By: _____ Date _____
Debra Lee, Laramie County Clerk

CONTRACTOR: TERRACON CONSULTANTS, INC.

By:  _____ Date 10/26/18
Name (printed): Zachary St. Jean
Title: Office Manager/Sr. Associate

This Agreement is effective the date of the last signature affixed to this page.

REVIEWED AND APPROVED AS TO FORM ONLY

By:  _____ Date 10/26/18
Gladys Ayokosok, Deputy Laramie County Attorney

Exhibit A (3 Pages)

Exhibit A Insurance Requirements RFQ for Inspection & Testing Services at Sheriff Jail Expansion 2018

Contractor shall procure and maintain for the duration of the contract, *and for 5 years thereafter*, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury, and personal & advertising injury with limits no less than \$1,000,000 per occurrence, and endorsed with Stop Gap coverage providing Employers Liability insurance with limits no less than \$1,000,000 per accident for bodily injury or disease. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
2. **Automobile Liability:** Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), with limits no less than \$1,000,000 per accident for bodily injury and property damage.
3. **Umbrella or Excess Liability:** Contractor may achieve required limits and coverage for Commercial General Liability, Employers Liability, and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such combination results in same or greater required limits and coverage, and in no event shall any excess or umbrella liability insurance provide narrower coverage than primary policy. Excess policy shall not require exhaustion of underlying limits only through actual payment by underlying insurers.
4. **Workers Compensation** as required by the State of Wyoming, with Statutory Limits.
5. **Professional Liability** with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate and with coverage endorsement for Contingent Bodily Injury and Property Damage.

If Contractor maintains broader coverage and/or higher limits than minimums shown for insurance, including but not limited to umbrella or excess liability insurance, the Owner requires and shall be entitled to the broader coverage and/or higher limits maintained by Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Owner.

Self-Insured Retentions

Self-insured retentions must be declared to and approved by the Owner. At the option of the Owner, either: the Contractor shall cause the insurer to reduce or eliminate such self-insured retentions as respects the Owner, its officers, officials, employees, and volunteers; or the Contractor shall provide a financial guarantee satisfactory to the Owner guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions:

1. **The Owner, its officers, officials, employees, and volunteers are to be covered as additional insureds** on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations and automobiles owned, leased, hired, or borrowed by or on behalf of the Contractor. General liability coverage can be provided in the form of an endorsement to the CONTRACTOR's Insurance (at least as broad as ISO Form CG 20 10 11 85 or, if later revision than 11 85 used, both CG 20 10, CG 20 26, CG 20 33, or CG 20 38 and CG 20 37 forms).
2. For any claims related to this project, the **Contractor's insurance coverage shall be primary** insurance coverage at least as broad as ISO CG 20 01 04 13 as respects the Owner, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the Owner, its officers, officials, employees, or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.
3. Each insurance policy required by this clause shall provide that coverage shall not be canceled, except with notice to the Owner.

Claims Made Policies

If any coverage required is written on a claims-made coverage form:

1. The retroactive date must be shown, and this date must be before the execution date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of contract work.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective, or start of work date, the CONTRACTOR must purchase extended reporting period coverage for a minimum of five (5) years after completion of contract work.
4. A copy of the claims reporting requirements must be submitted to the Owner for review.

Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best rating of no less than A: VII, unless otherwise acceptable to the Owner.

Waiver of Subrogation

Contractor hereby agrees to waive rights of subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss. Contractor agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation.

Verification of Coverage

Contractor shall furnish the Owner with original certificates and amendatory endorsements, or copies of the applicable insurance language, effecting coverage required by this contract. All certificates and endorsements are to be received by the Owner within 2 weeks of work commencing. However, failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The Owner reserves the right to require complete, certified copies of all required insurance policies, including endorsements, required by these specifications, at any time.

Subcontractors

Contractor shall require and verify that all subcontractors, contractors, or consultants maintain same insurance meeting all requirements stated herein. Contractor shall ensure that Owner is an additional insured on insurance required from subcontractors. For CGL coverage subcontractors shall provide coverage with a form at least as broad as CG 20 38 04 13.

Special Risks or Circumstances

Owner reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other circumstances.

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APPROVED AS TO FORM:



Laramie County Attorney's Office

NOT APPROVED AS TO FORM:

Laramie County Attorney's Office

COMMENTS: _____

Exhibit B (8 Pages)



**REQUEST FOR PROPOSAL
CONSTRUCTION MATERIALS TESTING SERVICES**

**LARAMIE COUNTY DETENTION CENTER
PHASE II EXPANSION
CHEYENNE, WYOMING**

Submittals Due
July 5, 2018

REQUEST FOR PROPOSAL
CONSTRUCTION MATERIALS TESTING SERVICES
Laramie County Detention Center
Phase II Expansion

I. ADVERTISEMENT

Laramie County (the County) proposes to expand the existing Detention Center by construction an additional 30,000+sf at the current site in Cheyenne, Wyoming.

The Construction Drawing phase of the Project is complete and the County has retained an CMAR for construction services. The County seeks to retain the services of a highly qualified Construction Materials (QC) Testing Agent to provide comprehensive quality control testing services during the duration of construction operations. The QC Testing firm shall act as an independent inspection and testing agency for material sampling, special inspections and all required testing. QC services will be performed for soils, concrete, rebar, structural steel, asphalt patching, etc. The agency selected to perform these services will be required to coordinate with the CMAR and the County and confirm that all required inspections and testing services are performed without unnecessary duplication or omission.

QC testing requirements have been specified in the Construction Documents and Specifications. These documents are available for download through the Counties website at: <http://www.laramiecounty.com> click on the link to "Project Bid Information at QuestCDN". The schedule for on-site inspections will be coordinated by the CMAR for each portion of the project requiring QC services. Questions regarding this service or any other information should be directed to Ben Hornok, Laramie County Owners Representative.

The County will select a single inspection and testing agency throughout the 12-month construction project. Please submit your firm's qualification statement, your project approach and a cost proposal outlining the services you anticipate will be required. Include rates for labor and materials testing services. The County will make a selection based on the proposals received proving the ability of the agency to meet the schedule and needs of the County.

The County's objective is to complete the Project on time and under budget, while maintaining the County's commitment to quality, efficiency, value, innovation, sustainability, and compliance with all applicable regulatory requirements.

For additional information and to obtain all drawings and specs for this project, please visit Laramie County's website at: <http://www.laramiecounty.com> click on the link to "Project Bid Information at QuestCDN". A ten dollar (\$10.00) fee will be charged.

Proposals shall be received by email to bhornok@laramiecounty.com by 2:00 P.M. Mountain Time, July 5, 2018.

II. PROJECT OVERVIEW

1. The proposed Detention Center Phase II Expansion consists of adding inmate housing and associated functions as well as providing administrative space. The project has several components:

- a. Overview. The proposed Phase II Expansion design consists of 30,896 gross square feet of new construction. Major building components include a five story Phase II addition consisting of new Administration space on the main floor and two 56 bed housing units configured on a main level plus mezzanine for a total of 112 beds. Additional components of the housing pods include Video Visiting, Program/Classroom and Outdoor Recreation spaces.

The design concept was modeled after the phase one addition, with program revisions to meet the needs for additional administration operations and housing unit needs evolving from workshop meetings and follow-up discussions with the County Commissioners, Laramie County Sheriff and supporting staff.

The floor plan arrangements include the following space allocations for each floor:

Phase II Expansion	
First Floor	6985 SF
Level 2 – Main Floor Housing	8534 SF
Level 3 – Mezzanine Level	3418 SF
Level 4 – Main Floor Housing	7806 SF
Level 5 – Mezzanine Level	3418 SF
Mechanical Penthouse	2138 SF
Total Expansion	32,299 SF
Remodel	
Booking Remodel/Add Intake Holding	865 SF

2. Currently, the projected construction timeframe is envisioned as follows:
 - a. Construction Start Date: July 2018.
 - b. Construction End Date: July 2019.

III. SCOPE OF SERVICES

The QC testing agency must be completely skilled in inspection, testing and reporting. It will be the responsibility of the QC testing agency to perform all required testing and inspections whether they are performed in-house, through a lab or through a third party specialist. The work will be coordinated directly with the CMAR's on-site staff and in accordance with the schedule developed by the CMAR. Inspections and testing will be performed so as not to cause any delay to the work of the CMAR. Reports will be returned within 48 hours of inspections. All non-conformance will be reported immediately to the CMAR and the County and followed up with a written report detailing non-conformance item(s) found within 24 hours of inspection or test results.

It is the duty of the QC testing agency to provide properly trained personnel for all testing and inspection services performed. Personnel must understand the methods and techniques used in

general construction operations as well as all requirements specifically detailed within the plans and specifications.

The QC testing personnel shall adhere to all safety requirements of the CMAR while on-site.

Construction Materials Testing and Special Inspections will be performed in the following areas but is not limited to:

A. INCLUDED SERVICES

The QC testing shall be performed in the following areas. This list is meant to give the respondent an idea of what may be included within the required scope of work. This list is not meant to be inclusive. Additional services may be required per the plans and specs. It is the responsibility of the respondent to ensure that all necessary services are included in the cost proposal. The following tasks are given to provide the basis of service:

1. Aggregates inspection
2. Soils testing
3. Drilled pier inspection
4. Reinforced steel inspection
5. Concrete testing
6. Masonry inspection
7. Mortar testing
8. Structural steel inspection
9. Weld inspections
10. Bolt inspection
11. Floor flatness inspection
12. Structural framing inspections
13. Compaction testing
14. Water proofing inspection
15. Insulation inspection
16. Fire proofing/stopping inspection
17. Asphalt inspections

B. EXCLUDED SERVICES

The QC testing shall be performed in the following areas. This list is meant to give the respondent an idea of what may be included within the required scope of work. This list is not meant to be inclusive. Additional services may be required per the plans and specs. It is the responsibility of the respondent to ensure that all necessary services are included in the cost proposal. The following tasks are given to provide the basis of services not included in this scope:

1. Testing, Adjusting and Balancing
2. Mechanical equipment commissioning
3. Electrical equipment commissioning

IV. FEE, RATES, and ESTIMATED COSTS:

The services of the Construction Materials Testing Agent will be complete under a Professional Service fixed-fee contract. Procurement of this service will be through review of the RFP, no interview is required. The County may seek to negotiate with the responds prior to award of the contract. Fee proposals shall include:

1. Itemized list of services to be performed.

2. Fixed Fee.
3. Hourly rates to be used throughout the duration of the project.
4. Estimate of the number of site visits.
5. Itemized list of fees for additional services.

All fee proposals shall include all insurance required by the County, all lab analysis to be performed, transportation to and from the jobsite, printing, mailing, documentation, reporting, office overhead, profit, etc.

Should contract negotiations with the selected firm be unsuccessful, the County reserves the right to move to the next firm and begin negotiations.

V. INSTRUCTIONS TO RESPONDENTS

SUBMISSION: In order to be considered, proposals must arrive via email at the address below by 2:00 P.M. Mountain Time, July 5, 2018. Submitters shall submit one PDF file copy of their completed statement of qualifications and fee schedules to the County at the following address:

bhornok@laramiecounty.com

Please include the following reference in the subject line of the email:

CONSTRUCTION MATERIALS TESTING SERVICE PROPOSAL

It is the responsibility of the Respondent to ensure that their responses are received on or before the submission date and time. Allow sufficient delivery time to ensure receipt by the date and time specified.

- Response to any Respondent's inquiries will be made by the County in a timely manner to all known prospective Respondents. Inquiries and corrections shall only be received by Laramie County via email at the following address: bhornok@laramiecounty.com.

CLARIFICATIONS OR SUPPLEMENTS TO REQUEST FOR PROPOSAL: In the event that it becomes necessary to revise any part of this RFP, a notice of any clarifications will be emailed to each Respondent who received the original RFP at the required website. It is the responsibility of Respondents, prior to submission date, to inquire as to addenda issued and to ensure their response reflects any and all changes. The County will maintain a register of holders of this RFP via the required website.

INCURRING COSTS: The County is not liable for any cost incurred by respondents prior to issuance of a legally executed contract. No property interest, of any nature, shall accrue until a contract is awarded and signed by all concerned parties.

RFP CANCELLATION: The County reserves the right to cancel this Request for Proposal at any time, without penalty.

NON-DISCRIMINATION: The respondent shall comply with all applicable state and federal laws, rules and regulations involving non-discrimination on the basis of race, color, religion, national origin, age, sex, or sexual orientation.

AVAILABILITY OF FUNDS: Financial obligations of the County payable after the current fiscal year are contingent upon funds for that purpose being appropriated, budgeted, and otherwise made available. In the event funds are not appropriated, any resulting contract will become null and void, without penalty to the County.

VI. STATEMENT OF QUALIFICATIONS

SOQs shall not be voluminous and should be kept below 5 MB; but shall provide sufficient information to allow the Owner to evaluate the firm's cost proposal, approach, experience, staff and availability.

The proposer shall:

1. Responders shall provide information on the firm's experience on projects of similar size, function, and complexity including similar types of construction. Projects should demonstrate the firm's capabilities to perform on the project at hand. Provide contact information for each project referenced.
2. Responders shall be clear with respect to the:
 - Company's credentials
 - The local office's credentials, and
 - The project team's credentials
3. List key personnel to be assigned to this project. Resumes should include experience, licenses, certifications and other relevant information.
4. Discuss your firm's capabilities to meet time and project requirements and ability to perform the work taking into account your current and projected project workload.
5. Explain your plan to protect the interest of and be an advocate for Laramie County during the project.
6. Special Qualifications. Describe what unique or extraordinary skills or qualifications your firm brings to the project. How would selection of your firm add value to the project?
7. Identify the location of your primary place of business.

VII. PRE-SUBMITTAL WALK-THROUGH:

A walk-through of the facility will not be conducted.

VIII. ADDITIONAL CONDITIONS

- 1) The successful respondent will be expected to enter into a contract, including insurance requirements, with Laramie County upon terms acceptable to the County. The contents of this RFP, the respondent responses to same and all provisions of the successful qualifier deemed pertinent by the County may be incorporated into a contract and become legally binding.
- 2) The County reserves the right to award the contract to the respondent(s) that the County deems to offer the best overall proposal(s). The County is therefore not bound to accept a proposal on the basis of lowest price. The County reserves the right to reject any or all proposals submitted and/or to waive or ignore any irregularities and/or omissions in any submission and to accept any proposal, portion of proposal, combination of proposal and or to reject or accept any proposal for any reason in its discretion
- 3) The County at its sole discretion, reserves the right to cancel this RFP, to modify the services sought, to reject any and all proposals, to waive any and all informalities and/or irregularities, or to re-advertise with either the identical or revised specifications, if it is deemed to be in the best interest of the County to do so. The County also reserves the right to make multiple awards, based on experience and qualifications if it is deemed to be in the County's best interest.
- 4) Laramie County does not waive its Governmental/Sovereign Immunity, as provided by any applicable law including W.S. § 1-39-101 et seq., by issuing this Request and/or entering into any agreement with any successful Respondent. Further, Laramie County fully retains all immunities and defenses provided by law with regard to any action, whether in tort, contract or any other theory of law, based on this RFP and any subsequent agreement(s).
- 5) Any errors or omissions discovered in this request for proposal, or any additional information needed to clarify any issues in the request, will be communicated to all firms who have expressed an interest in the engagement. The communication will amend the requests accordingly
- 6) If a respondent discovers any ambiguity, conflict, discrepancy, exclusionary specifications, omission, or other error in this document, the respondent shall immediately notify the County's representative. If respondent fails to notify the County of any error, ambiguity, conflict, discrepancy, exclusionary specifications, or omission in this RFP, the respondent shall submit a response at its own risk and under such conditions. If the respondent is awarded a contract, then such respondent will not be entitled to additional compensation, relief, or time by reason of the error or its later correction
- 7) It is incumbent upon each respondent to carefully examine all specifications, terms, and conditions contained herein and in all referenced data and documents. Any inquiries, suggestions, or requests concerning interpretation, clarification or additional information shall be made in writing, through the County contact named above. The County will not be responsible for any oral representation(s) given by any employee, representative or others. The issuance of a written addendum is the only official method by which interpretation, clarification or additional information can be given.
- 8) Respondents are advised that Laramie County is a governmental entity in the State of Wyoming. Public works projects, such as that referenced herein, carried out by governmental entities are subject to certain legal and regulatory requirements which may or may not be applicable to private entities. Any contract with a successful respondent will contain a requirement to monitor and secure compliance on the project with all applicable laws and regulations including, but not limited to, those contained in Wyoming statute WS 16-6-101 et seq.
- 9) If it becomes necessary for the County to revise or amend any part of this RFP, notice may be obtained by accessing the County web site. Respondents in their proposal must acknowledge receipts of amendments. Each respondent should ensure that they have received all addenda and amendments to this RFP before submitting their proposal. Please check the Laramie County web site at <http://www.laramiecounty.com> for a copy of the RFP and addenda.

10) All proposals submitted in response to this request become property of the County and public records, so they may be subject to public review. The laws of Wyoming require that the contents of all proposals shall be placed in the public domain and be open to inspection by interested parties. Trade secrets or proprietary information that are recognized as such and are protected by law may be withheld if clearly identified as such in the proposal. The respondent must mark in bold red letters the term "CONFIDENTIAL" on that part of the response, which the respondent believes to be confidential. The respondent may be required to submit in writing specific detailed reasons, including any relevant legal authority, stating why the respondent believes the material to be confidential. Vague and general claims as to confidentiality will not be accepted. Laramie County will be the sole judge as to whether a claim is general and/or vague in nature. The entire proposal cannot be designated as proprietary or a trade secret. If a request is received to examine portions designated as proprietary or a trade secret, Laramie County will notify the respondent to permit the respondent to defend the proprietary nature of the information.

11) The County reserves the right to request additional information, or request clarification, or reject in its sole discretion any and all proposals. Firms may submit a joint proposal.

12) Invalidity: If any provision of this RFP is held invalid or unenforceable by any court of competent jurisdiction, or if the County is advised of any such actual or potential invalidity or inability to enforce, such holding or advice shall not invalidate or render unenforceable any other provision hereof. It is the express intent of that the provisions of this RFP are fully severable.

13) By submitting in response to this RFP, respondent agree and understand that this RFP as well as any subsequent agreements shall be governed by and interpreted pursuant to the laws of the State of Wyoming. If any dispute arises between the parties from or concerning this RFP or the subject matter hereof, any suit or proceeding at law or in equity shall be brought in the District Court of the State of Wyoming, First Judicial District, sitting at Cheyenne, Wyoming. The foregoing provisions of this paragraph are agreed by the parties to be a material inducement to Responders and to County. This provision is not intended nor shall it be construed to waive County's governmental immunity as provided in this Agreement.

ADDITIONAL INFORMATION

For additional information, including the Construction Documents and Specifications for this project, please visit Laramie County's Site at: <http://www.laramiecounty.com> click on the link to "Project Bid Information at QuestCDN". A ten dollar (\$10.00) fee will be charged.

END OF DOCUMENT



July 05, 2018

Attn: Mr. Ben Hornock
Laramie County Owners Representative
E: bhornok@laramiecounty.com

Re: **Proposal for Construction Materials Testing and Observation Services**
Laramie County Detention Center Phase II Expansion
20th Street and Thomas Avenue
Cheyenne, Wyoming
Terracon Proposal No. P24181080

Dear Mr. Hornock:

Terracon Consultants, Inc. (Terracon) appreciates the opportunity to submit this proposal to provide construction materials testing and observation services during construction of the project referenced above. This proposal describes our understanding of the project scope of services and our estimated fees.

As typically required for Quality Requirements and/or Testing Agency Qualifications of the project specifications, Cheyenne Terracon is accredited by AASHTO in bituminous mixtures, soils and Portland cement concrete. Cheyenne Terracon's accreditation includes meeting the minimum requirements for ASTM C1077 (Concrete and Concrete Aggregates), D3740 (Soil and Rock), D3666 (Road and Paving) and E329 (Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction). Cheyenne Terracon accreditation in these service areas is documented by the AASHTO Accreditation Program Directory. Accreditation documentation is available upon request for your review or can be viewed by visiting their website at <http://www.aashloresource.org> for current R18 laboratory accreditation status.

Benefits to working with Terracon include:

- **Responsiveness:** Acting quickly to meet your deadlines, our employee owners are always available to you. With convenient locations across the country, we're able to quickly mobilize a workforce to respond to accelerated schedules and your changing needs.
- **Resourcefulness:** Applying new processes, methodologies, and techniques allows us to take a proactive approach to solving project challenges and deliver your projects better and faster. With our nationwide network of offices, we can initiate services easily on one or multiple projects simultaneously.
- **Reliability:** With vast experience working in local conditions, Terracon is a dependable partner throughout the life of your project. We deliver practical and constructible solutions, while avoiding delays, surprises, and costly mistakes down the road.

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A. PROJECT INFORMATION

Site Location

Item	Description
Location	The site is located at the Northwest corner of the intersection of 20 th Street and Thomas Avenue in Cheyenne, Wyoming.

Project Description

Item	Description
Proposed construction	Proposed project is the expansion of the existing detention center by approximately 32,000 square feet. Minimal site disturbance is anticipated. Building foundation will be drilled piers which will support perimeter footing wall and structural slab. First floor and additional five levels and penthouse to support administration services, inmate housing, visiting area, classrooms and mechanical services.

Anticipated construction testing and observation services are assumed to include earthwork, foundation excavation observation, drilled pier observation, reinforcing steel, concrete, structural masonry, damp-proofing, vapor retarder, fireproofing, structural steel welded and bolted connections, slab-on-grade and slab-on-deck, floor flatness and floor levelness, and hot-mix asphalt (HMA) at frequencies outlined in the project specifications and/or client designated representative request.

Should any of the above information or assumptions be inconsistent with the planned construction, please let us know so that we may make any necessary modifications to this proposal.

B. SCOPE OF SERVICES

Our understanding of the required construction materials testing services for this project is based upon project plans and specifications prepared by SEH (Project No.142685; plans dated May 11, 2018), and our experience with other projects of this type. Field and laboratory testing will be performed to determine if the general contractor's work that is tested by Terracon is in compliance with the project specifications. Our services exclude job site safety responsibility, and our services do not relieve any contractor or subcontractor from complying with the project specifications. Services will be provided in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. Services will be performed in a safe and as non-disruptive manner as reasonable.

The general services estimated for this project are listed below, followed by the specific scope of services for each service type:

- Field density compaction testing and laboratory evaluation of soils;
- Field observation of earthwork and foundation excavation observations;
- Full-time field observation of drilled pier foundation installation;
- Field observation of reinforcing steel location, type, and size prior to concrete placement;
- Field testing and laboratory evaluation of concrete;
- Observation, inspection and/or testing of masonry materials;
- Field observation of damp-proofing;
- Field observation of vapor retarder materials and installation;
- Field observation and testing of fireproofing materials;
- Field inspection of structural steel welded and bolted connections;
- Field testing of concrete floor flatness/levelness;
- Field testing of hot-mix asphalt; and
- Engineering, management and administration.

Our services will be provided on an as-scheduled basis. Services must be scheduled a minimum of one (1) working day in advance. These services in no way relieve the various contractors from their responsibility for properly constructing the work and it is the contractor's responsibility to meet the specified testing frequencies. Terracon will not be responsible for tests that are not performed due to a failure to schedule our services on the project. Scheduled testing and inspections will only determine compliance with project specifications at the client designated test locations, at the time our services are performed.

The service applicable project construction personnel on the site at the time of our observation and testing will be informed of our observation and test results. Written reports of observation and test results will be prepared on a regular basis throughout the duration of the project and distributed per your directive.

A detailed description of the proposed scope of services anticipated for this project is as follows. **Terracon requests that the proposed scope of services be reviewed by our client, design team and contractor to determine if the proposed scope of services meets the project intent and construction schedule anticipated. If changes are necessary, it is requested that Terracon be notified so that appropriate changes can be implemented prior to and during the project duration.**

Field Density Compaction Testing: Field density compaction testing will be performed in areas as directed by the client on an as-requested basis by qualified personnel during site earthwork and backfill operations at the site. The field services will be supported by appropriate laboratory evaluation of soils used as fill or backfill on the site. The laboratory testing will include laboratory moisture-density relationship (Proctor), percent passing the No. 200 sieve and/or Atterberg limit determinations. Laboratory material evaluations will be conducted at a

minimum for each type of soil encountered during fill placement. The testing will be performed to determine compliance with project specifications or as recommended in the geotechnical engineering report.

Foundation Excavation/Earthwork Observations: Foundation excavation and earthwork observations will be provided by qualified personnel on a part-time, as-requested basis in areas designated by the client. Observations will include confirmation that the soils and/or bedrock within the foundation excavation are consistent with those used when determining the geotechnical design criteria and recommendations for the project, subgrade stabilization (if needed), bearing stratum, and/or proper cleaning and dewatering of excavation, as appropriate.

Drilled Pier (Caisson) Observations: Drilled pier foundation installation observation will be provided by qualified personnel on a full-time basis and will include confirmation of bearing stratum, depth, embedment into bedrock, diameter, proper cleaning, dewatering of pier-hole excavations, reinforcement size and placement for each pier, prior to placement of concrete.

Reinforcing Steel Observations: Reinforcing steel observation will be provided by qualified personnel on a part-time, as-requested basis prior to concrete placement. It is imperative that any design changes and/or correspondence be provided to Terracon prior to the scheduled inspection services. Reinforcing steel for structural elements such as footings, grade beams, slabs-on-grade and slabs-on-decks, will be observed for conformance with the project plans and specifications which may include, but not necessarily limited to, the following:

- Confirmation of proper size and correct grade of steel; and
- Verification that reinforcing steel is placed at proper locations and in quantities specified on the approved plans and shop drawings.

Concrete Testing: Qualified personnel will be provided on an as-requested basis to sample the plastic concrete used during construction of placements as directed by the client. The concrete will be tested for slump, air content and temperature at the time for each set of cylinders cast. Sets of six (4" x 8") cylinders will be molded at each sampling. All samples will be field cured at the site and returned to our laboratory for moist curing prior to compressive strength testing. Compressive strength testing will be conducted at 7-day (1 cylinder), 28-day (3 cylinders) and 56-day (2 cylinders) intervals to determine compliance with project specifications. Terracon recommends discussing other designated ages for compressive strength testing as required in the project specifications to confirm that the compressive strength testing schedule meets the project and applicable referenced standards, intent and recommendations.

All test results will be reported after testing is completed. Additional testing of slump and concrete temperature will be provided for monitoring consistency, if requested; but is not included in the estimated scope of services.

Masonry Testing: Sampling of grout, and masonry prisms/assemblages will be performed at frequencies selected by the client. Observations of the proportioning, mixing, and placement of masonry units will be made only as requested during the site visit during sampling of grout, mortar and assemblages for testing. In addition, the grade, size, and placement of reinforcing and accessories will be made at the time of the site visit only if requested.

Masonry Special Inspection: Qualified personnel will provide special inspection of reinforced structural masonry. At a minimum, Terracon recommends the job site be visited twice a day during masonry construction for masonry constructed by low-lift grouting techniques or as applicable. High lift procedures should be coordinated with the structural engineer and inspection personnel. Observations of the proportioning, mixing and placement of mortar and masonry units will be made. Observations of grout placement will be made. The grade, size and placement of reinforcing, grout placement/vibration, and accessories will be made per visit.

Observations of the proportioning, mixing, and placement of mortar and masonry units will be made only as requested or arranged. Terracon recommends observing the clean-out cells for high-lift grouting to verify that the cells and bottom of clean-out openings are cleaned and free of obstructions. As coordinated and/or required, the grouting operations will be observed to verify the proper slump, consolidation and height of each grout lift.

All testing and observation services should be coordinated with a meeting or conference call with the project structural engineer, inspection/testing services consultant, masonry sub-contractor, and other applicable parties prior to the start of construction. Masonry grout, mortar and masonry units will be tested for compressive strength as required in the project specifications and at the direction of the project structural engineer.

Damp-proofing and Vapor Retarder Observations: Damp-proofing and vapor retarder observations will be provided at the request of the client by qualified personnel on a part-time, as-requested basis in areas as designated by the client. Observations will include confirmation of proper coverage of damp-proofing applications, thickness, lap details for vapor retarder specified materials.

Fireproofing Observations: Qualified personnel will inspect fireproofing materials in general accordance with UBC 43-8, ASTM E605, or applicable reference specification. As applicable, the following may apply: fireproofing will be inspected for thickness as stipulated by the appropriate UL Fire-Resistive Directory Design Numbers listed in the project specifications; samples of fireproofing materials will be obtained to determine the density and/or water content; one sample will be cut for every 15,000 square feet of area; and, fireproofing materials not conforming to project specifications will be identified and marked on-site during each site visit.

Structural Steel Welded and Bolted Connections Observations: Erection of the structure will be monitored for compliance to the project drawings and building code by a Certified American Welding Inspector (CWI) and/or American Welding Society (AWS) Inspector. Areas to be observed may include welds, shear stud, bolt quality and bolted connections for joists, steel deck and miscellaneous structural steel members.

Floor Flatness (Ff) and Floor Levelness (Fl): The floor flatness/levelness of concrete slabs-on-grade and elevated slabs will be measured using the F-Number system by a FACE Certified F-Number Measurement Inspector. Terracon recommends that the specified criteria and application be discussed with the project structural engineer, Terracon, concrete sub-contractor, general contractor, and other applicable project team members prior to placement of concrete.

Hot-Mix Asphalt (HMA) Paving Testing: Field density compaction testing by nuclear methods will be provided by an Engineering Technician, on an as-requested basis, during the placement of hot-mix asphalt at the project.

Engineering, Management & Administration: Engineering, management and administrative services will be provided as required to manage the project and prepare formal reports. Services will include the following:

- Attending project meetings (recommended, but will attend only upon request);
- Scheduling appropriate field personnel and providing oversight;
- Processing of reports and distribution via electronic Client Document Website to all designated parties;
- Reviewing project mix designs and/or material submittals;
- Reviewing paperwork/project construction documents;
- Preparing invoices;
- Providing a communication link between project team members; and
- Managing the project budget.

C. COMPENSATION

The fees for our services including all field work, laboratory testing, engineering analyses and report preparation has been estimated on the basis of unit rates especially prepared for this project. For testing and inspection services, our estimated fees **(\$22,198.00)** are based on the Fee Estimate prepared for this project (attached).

The time required for construction materials engineering and testing services on the project will be directly related to the schedule and performance of the various contractors on the site. **While the phases of construction have been separated for estimating purposes in the attached spreadsheet, actual field testing services may be performed simultaneously on the various phases. As a result, total fees for construction materials testing services may be reduced if services are performed during the same trip to the site. If the client or client's authorized representative requests Terracon to spend additional time on site beyond the total estimated amount, the total estimated amount will change accordingly and the client will pay Terracon for all additional services in accordance with the attached compensation schedule.**

The estimated fees presented include only those services presented in section B of this proposal. Estimated services will be invoiced at the applicable unit rates as presented on the attached compensation schedule. Additional services, if required, will be in accordance with our standard unit rates.

Our estimated fees are based upon our understanding of the project based on the information provided. Additionally, the following assumptions were used in preparing our estimated fees:

- We assume that contractors on the site will work a single shift 5-day per week schedule;
- Terracon's time on weekends and holidays will be invoiced at an overtime rate of 1.5 times the standard rate. Same day call outs, when we can cover, will be invoiced at the rate of the person available to cover the short-notice request;
- Should additional services be required beyond the scope of work described above, our standard unit rates will be applicable;
- The client or designated authorized representative will schedule testing and observation services with 24 hours notice and full-time observation and/or inspection (structural steel welded and bolted connections) services with 72 hours notice (7:00 a.m. to 5:00 p.m., Monday through Friday);
- The contractor is responsible to perform the work in accordance with the plans and specifications, and our testing of the work does not relieve them of their responsibility to perform the work properly; and
- Invoices for the project will be submitted on a monthly or bi-monthly basis.

D. AUTHORIZATION

This proposal may be accepted by executing the attached Agreement for Services and returning the executed copy including this proposal to Terracon. This agreement, including the limitations it contains, shall constitute the exclusive terms, conditions, and services to be performed for this project. Commencement of services by Terracon will be considered acceptance of this proposal and the attached Agreement for Services. This proposal is valid only if authorized within sixty days from the listed proposal date.

We appreciate your consideration of Terracon for this work, and look forward to working as your geotechnical and construction materials engineering and testing consultant on this and future projects.

Sincerely,

Terracon Consultants, Inc.



Scott M. Gruenberger
Department Manager / Materials



FOR Linda Dobkins, P.E., P.G.
Senior Engineer, Materials

Copies to: Addressee (via e-mail)

Attachments: Fee Estimate
Professional Construction Materials Engineering & Testing Service Fee Schedule

FEE ESTIMATE

SERVICES	UNIT RATES			QTY	TOTAL
Earthwork Observation and Testing					
Atterberg Limits and minus No. 200 Wash	\$175.00 per test	4 tests		4	\$700.00
Laboratory Compaction Characteristics (Proctor)	\$145.00 per test	4 tests		4	\$580.00
Engineering Technician (Field Density)	\$58.00 per hour	10 visits	2 hours/visit	20	\$1,160.00
				Subtotal	\$2,440.00
Foundation Excavation Observations					
Engineering Technician (Field Density)	\$58.00 per hour	5 visits	2 hours/visit	10	\$580.00
				Subtotal	\$580.00
Drilled Pier Observations (Full-Time)					
*Engineering Technician	\$58.00 per hour	5 visits	8 hours/visit	40	\$2,320.00
Concrete Cylinders	\$20.00 per cylinder	4 tests	6 cyl/test	24	\$480.00
Cylinder Retrieval	\$58.00 per hour	4 visits	1 hour/visit	4	\$232.00
*Concrete testing for drilled piers performed concurrently				Subtotal	\$3,032.00
Reinforcing Steel/Anchor Observations					
Engineering Technician	\$75.00 per hour	10 visits	2 hours/visit	20	\$1,500.00
				Subtotal	\$1,500.00
Concrete Testing					
Engineering Technician	\$58.00 per hour	10 visits	3 hours/visit	30	\$1,740.00
Concrete Cylinders	\$20.00 per cylinder	10 tests	6 cyl/test	60	\$1,200.00
Cylinder Retrieval	\$58.00 per hour	10 visits	1 hour/visit	10	\$580.00
				Subtotal	\$2,940.00
Structural Masonry Inspections					
Masonry Inspector	\$58.00 per hour	10 visits	4 hours/visit	40	\$2,320.00
Grout Specimens	\$200.00 per set	1 visit	1 set/visit	1	\$200.00
Masonry Assemblages (Prisms)	\$250.00 per set	1 visit	1 set/visit	1	\$250.00
				Subtotal	\$2,770.00
Miscellaneous Observations					
Damp-proofing Observations	\$58.00 per hour	2 visits	2 hours/visit	4	\$232.00
Vapor Retarder Observations	\$58.00 per hour	2 visits	2 hours/visit	4	\$232.00
				Subtotal	\$464.00
Fireproofing Observations					
Fireproofing Inspector	\$75.00 per hour	4 visits	4 hours/visit	16	\$1,200.00
				Subtotal	\$1,200.00
Structural Steel Welded and Bolted Connections					
Structural Steel Technician	\$75.00 per hour	12 visits	4 hours/visit	48	\$3,600.00
				Subtotal	\$3,600.00
Floor Flatness/Levelness Observations					
Floor Flatness/Levelness Inspector	\$100.00 per hour	4 visits	4 hours/visit	16	\$1,600.00
				Subtotal	\$1,600.00
Hot-Mix Asphalt Testing					
Engineering Technician (Field Density)	\$58.00 per hour	1 visits	4 hours/visit	4	\$232.00
				Subtotal	\$232.00
Report Review, Engineering & Management					
Department Manager	\$115.00 per hour		16 hours		\$1,840.00
				Subtotal	\$1,840.00
Total Estimated Fee					\$22,198.00

Note: While the phases of construction have been separated for estimating purposes in the fee estimate spreadsheet, actual field testing services may be performed simultaneously on the various phases. As a result, total fees for construction materials testing services may be reduced if services are performed during the same trip to the site.

TERRACON CONSULTANTS, INC. MATERIALS SERVICE LINE FEE SCHEDULE

PROFESSIONAL SERVICES

TECHNICIANS AND CLERICAL	Hourly Rate
Sr. Field/Lab Technician (State DOT or Equivalent Certification).....	\$75
Field or Laboratory Technician.....	58
Floor Flatness/Levelness Technician.....	115
Overtime surcharge (before 7 a.m., after 5 p.m. M-F, Saturdays, Sundays, and Holidays).....	1.5 x's hourly rate
Special Inspection (Masonry, Reinforced Concrete, etc.).....	75
Structural Steel-Weld-Boiled Connection & Fireproofing.....	75
Clerical/Dispatch.....	65

FIELD AND LABORATORY TESTING

SOILS

	Unit Price
Sieve Analysis (ASTM D2217, D422 and D1140)	
a. Standard Sieves 3-inch through No. 200.....	\$120
b. No. 200 to .005 mm. (ASTM D422); add to a or c.....	110
c. Minus 3" to #4 or Minus No. 4 to passing No. 200.....	80
d. Percent passing No. 200 sieve.....	60
Percent Passing No. 200 Sieve and Liquid-Plastic Limit.....	175
Specific Gravity (ASTM D854).....	125
Liquid-Plastic Limit (ASTM D4318).....	115
Moisture-Density Determination	
ASTM D698 (Standard).....	145
ASTM D1557 (Modified).....	180
One Point Test.....	80
Moisture Content (ASTM D2216).....	10
R Value (ASTM D2844).....	400
CBR Test (ASTM D1883).....	400
Relative Density (ASTM D4253 & D4254).....	200

AGGREGATES

Sieve Analysis (ASTM C136 & C117)	
a. Coarse aggregate Above No. 4 (ASTM C136).....	\$60
b. Fine Aggregate No. 4 through No. 200.....	80
c. Coarse & Fine Aggregates through No. 200.....	120
d. Large Pit-Run Samples (+3 in.), per hour.....	85
Specific Gravity & Absorption, Coarse or Fine (ASTM C127 & C128).....	125
Unit Weight (ASTM C29).....	75
Los Angeles Abrasion (ASTM C131 or C535).....	225
Sodium or Magnesium Sulfate Soundness (ASTM C88) Coarse or Fine, 5 cycles.....	350
Organic Impurities (ASTM C40).....	75
Clay Lumps and Friable Particles (ASTM C142).....	130
Flat and Elongates (ASTM D4791).....	115
Lightweight Particles Coarse or Fine, SpG 2.0 & 2.4 (ASTM C123).....	325
Fractured Faces (ASTM D5821 or applicable DOT std.).....	115
Alkali Silica Reactivity 14 Day Test (ASTM C1260 or C1587)	
Coarse or Coarse/Fine Blend Aggregate.....	950
Fine Aggregate.....	850
Alkali Silica Reactivity 28 Day Test (ASTM C1260 or C1587)	
Coarse or Coarse/Fine Blend Aggregate.....	1,200
Fine Aggregate.....	1,100
Fine Aggregate Angularity, (ASTM C1252, Method C).....	115
(Aggregate Specific Gravity Test is Not Included)	
Sand-Salt Mixture Salt Content (CP-L 4216).....	250
Sand Equivalent (ASTM D4318).....	115

DIRECT CHARGES

Per Diem and Lodging.....	\$65/day + cost of lodging
Automobile or Pick-up.....	\$75/day min. or \$0.70/mile
4 Wheel Drive or Heavy Duty Truck.....	\$85/day min. or \$0.75/mile
All other direct project expenses, i.e. special equipment rental, Commercial travel, bulk reproduction, protective clothing, sample shipping, etc.....	Cost + 15%
Provide on-site field laboratory facilities and test equipment.....	Quotation on Request
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING SERVICES.....	Fee Schedule Available on Request

WYOMING OPERATIONS (Cheyenne)

Revised January 2018

ENGINEERING

	Hourly Rate
Principal (Sr. Engineer/Geologist).....	\$180
Senior Project Engineer/Manager.....	140
Project/Department Manager.....	115
Project Geotechnical Engineer.....	100
Field Engineer/Geologist.....	100
Special Consultation, Expert Testimony, & Court Appearance.....	185-275

PORTLAND CEMENT CONCRETE AND MASONRY

	Unit Price
Vapor Emission Test (ASTM F1889/F2170), per location.....	\$135/150
Compressive Strength Testing	
a. Concrete Cylinder (ASTM C39).....	\$20
b. Grout/Mortar 2" X 2" Cubes (IBC or ASTM C109).....	18
c. Grout Prism (ASTM C1018).....	38
d. Concrete Core (ASTM C42).....	80
e. Flexural Strength (ASTM C78).....	75
f. Splitting Tensile Strength (ASTM C496).....	75
Provide Cylinder Molds (each).....	4
Masonry block/prism Assemblage Compressive Strength	
a. 8" unit.....	\$175
b. 12" unit.....	\$195
Unit Weight of Cylinder or Core (ASTM C567).....	40
Concrete Mix Design (Aggregate Tests & Travel Not Included)	
a. Compressive (lab batched).....	\$1,500
b. Compressive (truck batched).....	1,250
c. Flexural (truck batch/lab tested).....	2,000
d. Flexural (lab batch/lab tested).....	4,000
Coring Concrete (ASTM C42), per hour includes operator.....	85
Dry Shrinkage (ASTM C157).....	700

HOT MIX ASPHALT (HMA)

Extraction of Asphalt (ASTM D6307).....	\$115
Extraction and Gradation (ASTM D6307, D5444).....	205
Marshall unit weight, stability & flow, 3 specimens, pre-mixed (ASTM D6926-6927).....	205
Coring Hot Mix Asphalt (ASTM D979)	
a. 4" diameter cores, per hour.....	85
Bulk Specific Gravity & Thickness (ASTM D2728).....	40
HMA Trial Mix Design: (Aggregate Tests Not Included)	
Marshall Method (4 bin mix max.).....	4,000
Superpave SHRP Gyrotory (4 bin mix max.).....	4,500
Additional mix design bin/aggregate.....	450
Theoretical Maximum Specific Gravity/Rice (ASTM D2041) per point.....	105
Immersion-Compression or Lotman (ASTM D1074 & D1075/ AASHTO T283).....	550
Mix Design Volumetrics 1-point Verification (pre-mixed).....	550
Mix Design Volumetrics 1-point Verification (lab-mixed).....	1000
Mix Design Update (Aggregate Verification Only); includes gradation and specific gravity of 4 materials maximum).....	1000
Tests not shown above.....	Quotation on Request

"Rush laboratory service & less than 24-hour notice for field testing available at 50 percent surcharge based upon availability"

Terracon