Project Manual For:

Idaho Transportation Department
District #1

ITB 19-101
Sheep Creek Salt Shed
(Containment Slab)

RE-BID

Sheep Creek Site
Desmet, Idaho
Benewah County

October 1, 2018

CKA Project Number: 18075
Project Manual For:
Idaho Transportation Department
District #1

ITB 19-101
Sheep Creek Salt Shed
(Containment Slab)

RE-BID

Sheep Creek Site
Desmet, Idaho
Benewah County

CKA Project Number: 18075

October 1, 2018

OWNER (BOISE)
Idaho Transportation Department
3311 W. State Street
PO Box 1729
Boise, ID 83707-1129
Contact: Tony Pirc

OWNER (LOCAL)
ITD District #1
600 West Prairie Avenue
Coeur d’Alene, ID 83815-8764
Telephone: (208) 772-1225
Contact: Mike Lenz

ARCHITECT
Castellaw Kom Architects
850 Main Street
Lewiston, Idaho 83501
Telephone: (208) 746-0183
Fax: (208) 746-7267
Contact: Greg Castellaw, AIA
Ben Larsen, PM

STRUCTURAL
TD&H Engineering
303 East 2nd Ave.
Spokane, WA 99202
Telephone (509) 622-2888
Contact: Tony Stenlund, PE
Alfred Sanchez, EIT
### SECTION 000301 – TABLE OF CONTENTS

#### BIDDING, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

- 00 01 01 Project Title Page
- 00 03 01 Table of Contents
- 00 03 02 List of Drawings
- 00 11 00 Advertisement for Bids

**ITB 19-101 “INVITATION TO BID” ENCLOSED WITHIN THIS PROJECT MANUAL**
- Administration Information
- General Information
- Scope of Work
- General Architectural Special Provisions
- Terms and Conditions
- Bid Schedule
- Affidavit: Drug Free Workplace Program
- Signature Page

- 00 51 00 Form of Agreement (AIA Document A101 Referenced)
- 00 52 00 Gen. Conditions of the Contract for Construction (AIA Document A201 Referenced)

- 00 61 00 Coeur d’Alene Tribal Employment Rights Ordinance (T.E.R.O.) Compliance Plan

#### DIVISION 1 - GENERAL REQUIREMENTS

- 01 10 00 Summary
- 01 23 00 Alternates

#### DIVISION 2 – EXISTING CONDITIONS

- 02 50 01 Existing Photos (For Reference Only)

#### DIVISION 3 - CONCRETE

- 03 30 00 Cast-In-Place Concrete
- 03 35 00 Concrete Finishing

#### DIVISION 4 TO 28 – NOT USED

#### DIVISION 31 – EARTHWORK

- 31 20 00 Earth Moving

#### DIVISION 32-33 – NOT USED

NOT USED

END OF TABLE OF CONTENTS
# SECTION 000302 – LIST OF DRAWINGS

<table>
<thead>
<tr>
<th>Sheet</th>
<th>Drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1.0</td>
<td>General Structural Notes</td>
</tr>
<tr>
<td>S2.0</td>
<td>Foundation Plan</td>
</tr>
<tr>
<td>S3.0</td>
<td>Construction Details</td>
</tr>
</tbody>
</table>

END OF LIST OF DRAWINGS
ADVERTISEMENT FOR BID

The ITD (Idaho Transportation Department) is soliciting sealed proposals for Construction Services for RE-BID of District #1 Sheep Creek Salt Shed (Containment Slab) ITD Project No. 19-101, to construct a concrete slab within the existing salt storage shed pre-engineered metal building. The new containment slab will contain salt stored within the existing building. The project is located at HWY 95, Milepost 279, Desmet, Idaho 83824.

Proposals will be received at the Idaho Transportation Department Headquarters, Business and Support Management Building at 3311 State Street, Boise, Idaho 83707 by Monday, October 15, 2018 at 3:30 PM (MST Local Time).

A Pre-Bid Meeting will be held at the Site at 12:30 PM (PST) on Wednesday, October 3, 2018. Attendance is not mandatory but encouraged. Ben Larsen, Castellaw Kom Architects 208-746-0183 will chair the meeting.

Bidders are invited to attend a public bid opening where bids will be read aloud at the Idaho Transportation Department Headquarters, Business and Support Management Building at 3311 State Street, Boise, Idaho 83707, immediately following the closing time for receipt of bids. Owner reserves the right to reject any or all bids, or to waive informalities.

Bids must be accompanied by bid bond issued by an Idaho licensed surety company, or accompanied by a certified or cashier's check from an Idaho Bank payable to the Owner in an amount not less than 5% of the total bid. This surety shall be forfeited by the Bidder should the Bidder fail to sign the contract or furnish the required 100% Performance and 100% Payment Bonds.

Bid Documents are available for examination and may be obtained at the following locations: ITD's website, http://itd.idaho.gov/business/ (click on the “Other Solicitations” tab); at the AGC Office in Boise, 1649 W. Shoreline Dr. Boise, ID 83702 (208) 344-2531 www.nwacgplanner.com; ARC Documents Solutions, 2700 W. Idaho St. Boise, ID 83702 (208) 342-4141 www.e-arc.com; Blueprint Specialties, 6205 W. Overland Rd. Boise, ID (208) 377-0294 www.docuproject.com; Builder's Exchange of Washington Inc., (425) 258-1303 www.bxwa.com, and also at the Office of the Architect, Castellaw Kom Architects, 850 Main St. Lewiston, ID 83501 (208) 746-0183.

Bidder shall be licensed in the State of Idaho in accordance with Idaho State Public Works license law, Title 54 - Chapter 19 - Idaho Code Amended. Bidder shall comply with all Equal Employment Opportunity provisions required by federal regulations. Bidder shall be in compliance with State of Idaho Title 44 - Chapter 10, Idaho Code Amended as it relates to payment of wages and employment practices.

Submit All Questions to:

Ben Larsen, Project Manager
Castellaw Kom Architects
850 Main St.
Lewiston, ID 83501
(208) 746-0183
blarsen@ckarchitects.com

END OF DOCUMENT 001100
Invitation to Bid (ITB) 19-101

Sheep Creek Salt Shed (Containment Slab)

RE-BID

IDAHO TRANSPORTATION DEPARTMENT

Date of Issuance: October 1, 2018
# TABLE OF CONTENTS

**ADMINISTRATIVE INFORMATION**

1. GENERAL INFORMATION ........................................................................................................... 5
   1.1 Purpose ................................................................................................................................. 5
   1.2 General Information, Solicitation Instructions and Standard Terms and Conditions ......... 5
   1.3 Inquiries ............................................................................................................................... 5
   1.4 Submission Requirements ................................................................................................. 6
   1.5 Compliance with .................................................................................................................. 6
   1.6 Award .................................................................................................................................. 7
   1.7 Point(s) of Contact/Contract Administration ................................................................... 7
   1.8 Background ......................................................................................................................... 7
   1.9 Pre-Bid Conference ............................................................................................................. 7

2. SCOPE OF WORK ......................................................................................................................... 8
   2.1 Worksite Cleanup .................................................................................................................. 8
   2.2 Work not noted, detailed, or specified ............................................................................... 8
   2.3 Location ................................................................................................................................ 8
   2.4 Staging Location(s) ............................................................................................................. 8
   2.5 Experience ............................................................................................................................ 8
   2.6 Safety .................................................................................................................................... 8
   2.7 Basis of Payment .................................................................................................................. 8
   2.8 Fully Burdened Cost ............................................................................................................ 9
   2.9 Contract Compliance .......................................................................................................... 9

3. GENERAL ARCHITECTURAL AND SPECIAL PROVISIONS ...................................................... 9
   3.1 Subletting/Subcontracting ................................................................................................. 9
   3.2 Guarantee ........................................................................................................................... 10
   3.3 Manufacturer Warrantees and Instruction Sheets ............................................................ 10
   3.4 Temporary Utilities ........................................................................................................... 10
   3.5 Permits ................................................................................................................................ 10
   3.6 Codes ................................................................................................................................... 10
   3.7 Protection ............................................................................................................................ 10
   3.8 Prior Approval .................................................................................................................... 11
   3.9 Submittals ............................................................................................................................ 11
   3.10 As Built Drawings .............................................................................................................. 11
   3.11 Operation, Maintenance Instructions and Manuals ......................................................... 11
   3.12 Dimensions and Measurements ........................................................................................ 12
   3.13 Coordination and Control ................................................................................................ 12
   3.14 Use – Tax ............................................................................................................................. 12
   3.15 Superintendent ................................................................................................................ 12
   3.16 ITD Use of Building .......................................................................................................... 12
   3.17 Change Orders ................................................................................................................... 12
   3.18 Information Given Prior to Award .................................................................................... 13
   3.19 Performance ....................................................................................................................... 13
   3.20 Bidding Requirements and Conditions ........................................................................... 13
   3.21 Irregular Bids ..................................................................................................................... 13
   3.22 Disqualification of Bidders ............................................................................................... 14
   3.23 Bid Guaranty (Five Percent Bid Bond) ............................................................................ 14
   3.24 Return of Bid Guaranty (Five Percent Bid Bond) ............................................................... 14
   3.25 Surety Bond Requirements (Performance and Payment Bonds) .................................... 14
   3.26 Consideration of Bid / Record of Public Bid Opening (ROPBO) ........................................ 15
   3.27 Execution / Award of the Contract ..................................................................................... 15
   3.28 Failure to Execute Contract .............................................................................................. 15
3.29 Authority to Proceed ............................................................................................................. 15

4 TERMS AND CONDITIONS ..................................................................................................... 15
   4.1 Contract Award ..................................................................................................................... 15
   4.2 Liquidated Damages ............................................................................................................. 15
   4.3 Payment Requirements ........................................................................................................ 16
   4.4 Changes .............................................................................................................................. 16
   4.5 Claims for Adjustment and Disputes .................................................................................. 16
   4.6 Force Majeure ..................................................................................................................... 16
   4.7 Default and Termination of Contract .................................................................................. 16
   4.8 Termination for Convenience of the State ......................................................................... 17
   4.9 Appropriation by Legislature Required .............................................................................. 17
   4.10 Indemnification .................................................................................................................. 17
   4.11 Save Harmless ................................................................................................................... 17
   4.12 Insurance requirements ...................................................................................................... 18

ATTACHMENT A- BID SCHEDULE ............................................................................................. 21

ATTACHMENT B- AFFIDAVIT: DRUG FREE WORKPLACE PROGRAM ........................................ 22

ATTACHMENT C- SIGNATURE PAGE .......................................................................................... 23

ATTACHED SPECIFICATIONS BY A/E DATED 10/01/2018 ........................................ REFER TO SECTION 000301 FOR TABLE OF CONTENTS

ATTACHED DRAWINGS BY A/E DATED 10/01/2018 ........................................ REFER TO SECTION 000302 FOR LIST OF DRAWINGS
# ADMINISTRATIVE INFORMATION

<table>
<thead>
<tr>
<th>ITB Title:</th>
<th>Sheep Creek Salt Shed (Containment Slab) – RE-BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITB Project Description:</td>
<td>Construction of containment slab within existing PEMB salt shed</td>
</tr>
<tr>
<td>ITB Lead:</td>
<td>Tony Pirc, Capital Facilities Manager Idaho Transportation Department Agency Address: 3311 W State Street Boise, ID 83703 E-mail: <a href="mailto:tony.pirc@itd.idaho.gov">tony.pirc@itd.idaho.gov</a> Phone: 208-334-8600</td>
</tr>
<tr>
<td>Submit sealed bid:</td>
<td>Address for Courier Attn: Stephanie Wildman Grants/Contracts Officer ITD Headquarters Building 3311 W State Street Boise, ID 83703</td>
</tr>
<tr>
<td>Deadline To Receive Questions:</td>
<td>October 9, 2018</td>
</tr>
<tr>
<td>ITB Closing Date:</td>
<td>3:30 p.m. Mountain Time on October 15, 2018</td>
</tr>
<tr>
<td>ITB Opening Date:</td>
<td>3:35 p.m. Mountain Time on October 15, 2018</td>
</tr>
<tr>
<td>Initial Term of Contract (service completion):</td>
<td>The purchase, delivery, and service performed under the contract will begin upon ITD’s written notice to proceed and must be complete within 30 calendar days from Notice to Proceed unless otherwise agreed upon by ITD.</td>
</tr>
</tbody>
</table>
1 GENERAL INFORMATION

1.1 Purpose
The Idaho Transportation Department (ITD) is requesting bids from qualified bidders for the construction of a concrete containment slab within the existing pre-engineered metal salt shed, located at the District #1 Sheep Creek Site (approximately 3.3 miles south of Tensed, Idaho), in accordance with the drawings specifications contained and referenced herein.

Public Works Licensing is Required

1.2 General Information, Solicitation Instructions and Standard Terms and Conditions
This solicitation is issued by the Idaho Transportation Department via:

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

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

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

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

ITB Lead: Tony Pirc, Capital Facilities Manager
Phone: (208) 334-8600
E-mail: tony.pirc@itd.idaho.gov

Architect: Castellaw Kom Architects
Contact: Ben Larsen, Project Manager
Phone: (208) 746-0183
E-mail: blarsen@ckarchitects.com

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

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

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

1.4 Submission Requirements

1.4.1 Required Bid Submission Items

Your bid submission must consist of the following:

1.4.1.1 Bid Schedule (Attachment A)
1.4.1.2 Affidavit: Drug Free Workplace Program (Attachment B)
1.4.1.3 Signature Page (Attachment D)

1.4.2 Bid Submission Methods

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

1.4.2.1 Submission Method Requirements

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

Attn: Stephanie Wildman, Grants/Contracts Officer, Idaho Transportation Department
Bidder Name: (Company Name)
ITB Number: 19-101
ITB Title: Sheep Creek Salt Shed (Containment Slab) – RE-BID
ITB Closing Date: October 15, 2018

Bidders must provide one (1) original bid.

1.5 Compliance with

1.5.1 ITD Policy Compliance

The following ITD Policy Compliance applies to this contract when the Contractor is performing work at an ITD facility or when using ITD equipment or other property. These policies will remain in force for the duration of the contract:
5055 Harassment in the Workplace policy
5523 Alcohol and Drug-free Workplace policy
5510 Computer, E-Mail, and Internet Usage policy
5033 Workplace Violence Policy

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

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

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

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

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

1.7 Point(s) of Contact/Contract Administration
The contract Administrator(s) and Manager(s) contact information for the resulting contract(s) will be provided upon award of bid.

1.8 Background
ITD needs a permanent concrete slab within the existing salt shed, to contain salt.

1.9 Pre-Bid Conference: October 3, 2018 @ 12:30 PM (Pacific local) at the Project Site. Please contact Architect, Castellaw Kom Architects, Ben Larsen (Project Manager) at 208-746-0183 or blarsen@ckarchitects.com to schedule a site visit.
2 SCOPE OF WORK

(ITD) is requesting bids from qualified bidders for the construction of a concrete containment slab within the existing pre-engineered metal salt shed, located at the District #1 Sheep Creek Site (approximately 3.3 miles south of Tensed, Idaho). The requirements & specifications for the scope of work are as follows:

ATTACHED SPECIFICATIONS BY A/E DATED 10/01/2018 ...... REFER TO SECTION 000301 FOR TABLE OF CONTENTS
ATTACHED DRAWINGS BY A/E DATED 10/01/2018 ...............REFER TO SECTION 000302 FOR LIST OF DRAWINGS

2.1 Worksite Cleanup

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

2.2 Work not noted, detailed, or specified

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

2.3 Location

Idaho Transportation Department Placement to be determined on site by architect prior to delivery.

2.4 Staging Location(s)

If required, staging location(s) will be determined by the Project Administrator.

2.5 Experience

The Contractor as well as the project supervisors proposed for the project must have a minimum 5 years experience in all elements associated with excavation and concrete work.

2.6 Safety

The Contractor must have an established Safety processes pertaining to the equipment, material, and process demonstrating capability of safely conducting the work specified in the above solicitation.

2.7 Basis of Payment

The Contractor must submit invoices to the ITD billing location provided below, for the quantity delivered and accepted. ITD will render payment for a properly executed invoice according to the terms and provisions identified in Idaho Code 67-2302. Contractor’s invoices to be submitted each month and will be paid by ITD within 60 days.
Invoices must include the following information:

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

Invoices must be submitted to:

Idaho Transportation Department  
Attn: Tony Pirc, Capital Facilities Manager  
3311 State Street,  
Boise, Idaho 83702  
Or  
Emailed to both of the following:  
tony.pirc@itd.idaho.gov  
hqap@itd.idaho.gov

2.8 Fully Burdened Cost

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

2.9 Contract Compliance

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

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

3 GENERAL ARCHITECTURAL AND SPECIAL PROVISIONS

The Contractor shall supplement the plans for such working drawings as are necessary to adequately control the work. Materials incorporated into this project shall be new and free from defects and of the best commercial quality for the purpose specified.

3.1 Subletting/Subcontracting

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

Companies must possess an appropriate Idaho Public Works Contractors License issued by the State of Idaho Public Works Contractors State License Board covering the contract work classification in which they are named.
Note: Section 67-2310, Idaho Code, also states "No general contractor shall name any subcontractor in his bid.

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

3.3 Manufacturer Warrantees and Instruction Sheets
Two (2) copies of the manufacturer’s warranties, guarantees, instruction sheets, and parts list for all Contractors’ furnished materials shall be turned over to ITD upon completion of the project.

3.4 Temporary Utilities
The Contractor shall visit the site and determine what measure, if any, will need to be taken to provide for utilities for construction work, which may occur before the time that permanent services will be available.

The contractor shall make arrangements for and furnish at their own expense, all water, sanitary facilities and other utilities necessary for construction purposes. All utilities shall be at the Contractor’s expense until final acceptance.

3.5 Permits
Pursuant to Section 39-4103 Idaho Code, the Division of Building Safety is responsible for the issuance of building permits and building inspections for construction projects owned by the State of Idaho. This is separate from any required state electrical, plumbing, and mechanical or elevator permits. The contractor shall obtain and pay for all licenses and permits and shall pay fees and charges for connection to outside services to include, water, sewer and electricity and use of public or private property for storage of materials, etc. The Contractor shall comply, without additional expense to ITD, with all State, County and Municipal building ordinances and regulations as far as the same are binding upon the State. ITD will reimburse the Contractor for utility hookup fees at invoice costs.

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

3.7 Protection
The Contractor shall, at all times, protect building from damage; remove and replace with new work any work damaged by failure to provide protection. Replacement of damaged work will be at no additional cost to ITD.

The Contractor shall provide and maintain dust protection, weather protection and heating as required for the protection of the work from the beginning of the work until final completion, acceptance, or occupancy.
3.8 Prior Approval

The references made to materials equipment, appliances or fixtures in the plans or specifications, where manufactures’ products or brand names are specified, are made to show standards for comparison only as to type, design character, or quality of the article desired, and are not for the purpose of restricting bidders to these products or brand names. The term “or equal” as used herein shall be understood to mean equal to that specified for fulfilling the intended requirements in the judgment of the Contract Administrator. **THE BURDEN OF PROVING THE EQUITY SHALL BE THE CONTRACTOR’S RESPONSIBILITY.** The Contract Administrators decision shall be final. Shop drawings or manufacturer’s literature for the substitute item and for the specified item shall be submitted to support the Contractor’s request on all substitutions.

All requests for approval of change in design of function of materials specified must allow for a maximum 14 days review time, after receipt of all necessary documents by the Contract Administrator. Approval of submittals shall not relieve the Contractor from responsibility for deviations from the plans or specifications, unless they have, in writing, called the Contract Administrator attention to deviations at the time of submission, and obtained the Contract Administrators written approval. Approval of submittals does not relieve the Contractor from responsibility for errors in shop drawings or literature.

3.9 Submittals

A Minimum of one (1) electronic copy submittal is required on all products.

Submittals shall contain the Project name, Contract Number and the following information:

- Date of submission and dates of any previous submittals.
- The names of the contractor, sub-contractor and manufacturer.
- Contractors stamp, initialed or signed, certifying to review of submittal.
- Identification of any deviation from Plans and Specifications.
- Identify each submittal item by specification section, manufacturer, brand, trade name, number, size, rating, or whatever other data is necessary to properly identify and check materials and equipment. The words “as specified” are not sufficient identification.

The Contractor shall submit all required submittals within three (3) days of contract signing. Authority to proceed will be given after submittals are approved by the A/E Design Professional.

3.10 As – Built Drawings

The Contractor shall provide the Contract Administrator with two (2) complete sets of as-built drawings. As-built drawings shall provide detailed and accurate sizes, dimensions and locations of all work items covered under this contract. Contractor shall instruct the separate trades to keep accurate measurements and records of their installation, as the work proceeds. No measurement or payment will be made for as-built drawings, but the cost thereof shall be considered incidental to the items of work under this contract.

3.11 Operation, Maintenance Instructions and Manuals

The Contractor shall train ITD personnel in the general use and maintenance of all installed equipment and accessories. The Contractor shall provide three complete copies of “Operations and Maintenance” manuals for ITD use. The manuals will identify all parts of equipment and show complete wiring diagrams. The manuals will include copies of warranties for all items.
3.12 **Dimensions and Measurements**

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

3.13 **Coordination and Control**

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

3.14 **Use – Tax**

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

In the event that the Contractor does utilize State-owned material, the exercise of control over State-owned material by a Contractor who is improving real property (roadways, etc.) will incur the imposition of a use tax.

Bidders are advised to consult Section 63-3609, Idaho Code, and IDAPA 35, Title 01, Chapter 02, Sales Tax Administrative Rule 012, “Contractors Improving Real Property”, and Rule 013, “Road and Paving Contractors”, or contact the Idaho State Tax Commission for guidance. (Telephone No. (208) 334-7617)

3.15 **Superintendent**

The Contractor shall employ a competent Foreman and necessary assistants who shall be in attendance at the Project site during the progress of work. The Foreman shall represent the Contractor and all communications given to the Foreman shall be as binding as if given to the Contractor. Important communications will be confirmed in writing.

3.16 **ITD Use of Building**

The contractor shall take special care to insure that no unnecessary disruptions or normal routines will occur at the project work site. Access to and egress from buildings, grounds, services areas, drives, and streets shall be maintained at all times. Temporary disruptions of building services, equipment, etc. shall be scheduled with ITD. Normal functions shall be restored as quickly as possible.

3.17 **Change Orders**

The Contractor agrees that the amount allowed for overhead and profit on any Change Order is limited to the amounts indicated below.

1. For total changes of $10,000 or less in direct cost, the amount allowed for overhead, profit, bonds and insurance for the Contractor and all subcontractors of any tier combined shall not exceed twenty percent (20%) of direct costs;

2. For total changes exceeding $10,000 in direct cost, the amount allowed for overhead, profit, bonds and insurance for the Contractor and all subcontractors of any tier combined shall not exceed fifteen percent (15%) of direct costs; or

3. The Contractor will determine the amount of overhead and profit to be apportioned between the Contractor and its subcontractor of allowable amounts of overhead, profit, bonds and insurance.
3.18 **Information Given Prior to Award**

Oral explanations, instructions and interpretations given to bidders prior to award of contract will not be binding. It is the Department's intent to provide all bidders equal opportunity to access and acquire all available pertinent information necessary to formulate a responsive bid. Any information, specifications, plans, data or interpretations which the Department discovers is lacking and may be important to all bidders, will be furnished to all bidders in the form of an addendum, the receipt of which shall be acknowledged.

3.19 **Performance**

Submission of a bid by any Contractor shall be accepted as prima facie evidence that they have satisfied themselves as to the nature and location of the work and all other matters, which can in any way affect the work or cost thereof under the contract. Any failure of the Contractor to acquaint them with all available information, including a physical survey of the site of the proposed work, shall not relieve them from successfully performing all the work required.

3.20 **Bidding Requirements and Conditions**

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

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

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

3.21 **Irregular Bids**

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

1. If the Bid Form(s) are on a form other than that furnished by the State or if the form is altered or any part thereof is detached.
2. If there are unauthorized additions, conditional or alternate bids, omission of addenda, or irregularities of any kind, which tend to make the bid incomplete, indefinite, or ambiguous as to its meaning.
3. If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
4. If the Bid Schedule does not contain a unit price for each pay item listed except in the case of alternate pay items.
5. If the Bid Documents are not sealed, when received by the Department.
6. If the Signature Page is not signed in blue ink and returned with your bid.
7. If Addendums are not signed, in blue ink, and returned with the Bid Documents.
8. If the required Public Works License Number(s) is not inserted on the ‘Signature Page’.
9. Bidder fails to submit the proper Bid Guaranty as outlined under Subsection 3.23.

3.22 Disqualification of Bidders

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

1. More than one bid, for the same work from an individual, partnership or corporation under the same name or a different name.
2. Evidence of collusion among bidders. Participants in such collusion will receive no recognition as bidders for any future work of the State until any such participant shall have been reinstated as a qualified bidder.
3. Bidder, or its principals or affiliates, is disbarred, suspended, or ineligible from federal contracting; see Idaho Code § 67-5730 (2) (f).

3.23 Bid Guaranty (Five Percent Bid Bond)

No bid will be considered unless accompanied by a 5% Bid Bond of the character and in an amount not less than the amount indicated on the Bid.

Bid Bonds shall be submitted on the most current version of The American Institute of Architects (AIA) Document 310, signed by the bidder and their surety company. Power of Attorney for the person who executes the bond on behalf of the surety as Attorney-In-Fact must accompany the bid bond.

Guarantees submitted via any other obligation WILL NOT be considered and the bid will be rejected.

Please note: Bonding Surety must be registered and licensed with the Idaho Department of Insurance at the time of bid closing. Bid Guaranty will not be accepted if Surety is not registered and licensed in Idaho, and bid will be deemed non-responsive and rejected.

3.24 Return of Bid Guaranty (Five Percent Bid Bond)

Bid guaranties, except those of the two lowest responsive bidders, will be returned immediately following the opening and checking of the bids. The retained bid guaranty of the unsuccessful of the two lowest responsive bidders will be returned within 10 days following the award of contract and that of the successful bidder will be returned after satisfactory Surety bonds have been furnished and the contract has been executed.

3.25 Surety Bond Requirements (Performance and Payment Bonds)

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

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

Guarantees submitted via any other obligation WILL NOT be accepted.

Please note: Bonding Surety must be registered and licensed with the Idaho Department of Insurance. Performance and Payment bonds will not be accepted if Surety is not registered and licensed in Idaho, and contract will not be executed by the Department. If contractor fails to file acceptable bonds within 7
calendar days after the contract has been received by the bidder, this failure may be deemed just cause for the cancellation of the award of contract and the forfeiture of the proposal guaranty which shall become the property of the state, not as a penalty, but in liquidation of damages sustained.

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

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

3.27 Execution / Award of the Contract

The award of contract, if it is awarded, will be made within 7 calendar days after the Intent to Award Notice letter has been mailed to the lowest responsive bidder whose bid complies with all requirements prescribed. However, the award may be deferred beyond 7 calendar days by mutual written agreement between the Department and the lowest responsive bidder.

The contract shall be signed by the lowest responsive responsible bidder and returned within 24 hours after the bidder has received the contract. If the contract is not executed by the State within 7 calendar days following receipt from the bidder of the signed contracts, the bidder shall have the right to withdraw their bid without penalty. No contract shall be considered as effective until it has been fully executed by all of the parties thereto.

3.28 Failure to Execute Contract

Failure to execute the contract, file acceptable bonds and submit acceptable evidence, if required by contract, of good faith efforts to obtain participation by disadvantaged businesses within 15 calendar days after the contract has been received by the bidder shall be just cause for the cancellation of the award of contract and the forfeiture of the proposal guaranty which shall become the property of the state, not as a penalty, but in liquidation of damages sustained. Award may then be made to the next lowest responsible bidder or the work may be readvertised and constructed under contract or otherwise, as the state may decide.

3.29 Authority to Proceed

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

4 TERMS AND CONDITIONS

4.1 Contract Award

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

4.2 Liquidated Damages

The amount of Liquidated Damages for failure to complete the work within contractual time is $500 per calendar day past the Substantial Completion Date.
4.3 Payment Requirements
The Contractor will be paid in accordance with the bid schedule. Payments otherwise due may be withheld on account of substandard or defective work not remedied.

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

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

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

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

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

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

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

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

4.8 Termination for Convenience of the State

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

4.9 Appropriation by Legislature Required

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

4.10 Indemnification

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

4.11 Save Harmless

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

The Contractor will maintain Worker’s Compensation Insurance as required by Idaho Code and will provide to the department a certificate of Idaho Worker’s Compensation Insurance issued by a surety licensed to write Idaho Worker’s Compensation in the State of Idaho, or an extraterritorial certificate approved by the Idaho Industrial Commission from a State that has a current reciprocity agreement with the Idaho Industrial Commission. Failure to provide a Certificate of Workman's Compensation Insurance may result in a price adjustment to cover any cost to the Department of providing the necessary workman's compensation insurance. The Department will not assume liability as an employer.
The Contractor shall protect, indemnify, and save the Department harmless from and against any damage, cost, or liability including reasonable attorney’s fees for any or all injuries to persons, property or claims for damages arising from any acts or omissions of the Contractor, its employees, or subcontractors.

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

4.12 Insurance requirements

Within seven (7) calendar days of notification of award (or such other time as designated by the Purchasing Activity), the apparent successful bidder must provide certificates of insurance required herein and must maintain the insurance during the life of the Contract. There are no provisions for exceptions to this requirement. Failure to provide the certificates of insurance within the fifteen (15) calendar day period may be cause for your bid to be declared non-responsive or for your contract to be cancelled.

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

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

4.12.1 Commercial General and Umbrella Liability Insurance.

Contractor must maintain Commercial General Liability (CGL) and, if necessary, Commercial Umbrella insurance with a limit of not less than $2,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it must apply separately to this Contract. For Comprehensive or Commercial General Liability insurance policy containing an aggregate limit, ensure a limit of at least $4,000,000. The above limits may be met by policies having limits such as $1,000,000 per occurrence, $2,000,000 aggregate plus an umbrella policy of $2,000,000.

CGL insurance must be written on ISO occurrence form CG 00 01 (or a substitute form providing equivalent coverage) and must cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).


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

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

4.12.3 Workers Compensation Insurance and Employer’s Liability.

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

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

4.12.4 State of Idaho as Additional Insured.

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

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

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

4.12.5 Notice of Cancellation or Change.

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

4.12.6 Failure to Comply.

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

4.12.7 Acceptable Insurers and Deductibles.

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

4.12.8 Waiver of Subrogation.

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

ITB 19-101 Sheep Creek Salt Shed (Containment Slab) – RE-BID

Company Name of Bidder: __________________________________________________________

Contact Name/Phone: _____________________________________________________________

Contact E-mail: __________________________________________________________________

Provide your fully burdened Total Cost for the scope of work specified in this solicitation (DO NOT FORGET TO INCLUDE PRICE FOR ALTERNATE #1 BELOW):

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<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>UM</th>
<th>UNIT PRICE</th>
<th>EXTENDED PRICE</th>
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<td>Sheep Creek Salt Shed (Containment Slab) – RE-BID</td>
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TOTAL COST $___________

List of Alternates:

Alternate #1: Dayton Superior Bridge Seal 75% in lieu of specified Base Bid sealer $______________

Authorized Signature (Blue ink or electronic digital I.D.) ____________________________ Date ______________

Printed Name ____________________________ Title ____________________________

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

ITB 19-101 Sheep Creek Salt Shed (Containment Slab) – RE-BID

STATE OF __________________________
COUNTY OF _______________________

The undersigned being duly sworn upon oath deposes and says that ______________________
(Contractor Name)

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

_____________________________ provides a drug-free workplace program that complies with the
(Contractor Name)

provisions of Idaho Code, Title 72, Chapter 17 and will maintain such program throughout the life this contract
and that _______________________ will subcontract work only to

(Contractor Name)

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

_____________________________
Name of Contractor

_____________________________
Address

_____________________________
City and State

By: _______________________
(Signature)

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

_______________________________________
NOTARY PUBLIC, residing at

_______________________________________

_______________________________________

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

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

Send your sealed bid package to:

ATTN: Stephanie Wildman, Grants/Contracts Officer
Idaho Transportation Department
3311 W State Street
Boise, ID 83703

FedEx, UPS, or other Couriers: Same as above

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

Bid Number: 19-101  Bid Title: Sheep Creek Salt Shed (Containment Slab) – RE-BID

Bidder (Company Name): ___________________________________  ______________________________________
ADDRESS: _______________________________________________________________________________________________
CITY, ST, ZIP: _______________________________________________________________________________________
PHONE: ________________________ FAX: _________________________ EMAIL: ____________________________________
PUBLIC WORKS LICENSE NO:___________________________  FEIN:_________________________________

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

_________________________________________________  ______________________________________
Authorized Signature (Blue ink or electronic digital I.D.)  Date

_________________________________________________  ______________________________________
Printed Name  Title

THIS ATTACHMENT MUST BE COMPLETED AND RETURNED WITH RESPONSE
1.1 REFERENCE TO FORM OF AGREEMENT DOCUMENT

A. AIA Document A101, 2017 Edition, “Standard Form of Agreement Between Owner and Contractor” will be used as the agreement for this Work.


C. If a contradiction occurs between the referenced AIA Document A101 and the Idaho Transportation Department ITB 19-101, the ITB 19-101 supersedes and the requirements set forth in the ITB 19-101 shall rule.

END OF DOCUMENT 005100
DOCUMENT 005200 – GENERAL CONDITIONS TO THE CONTRACT FOR CONSTRUCTION

1.1 REFERENCE TO FORM OF AGREEMENT DOCUMENT


C. If a contradiction occurs between the referenced AIA Document A201 and the Idaho Transportation Department ITB 19-101, the ITB 19-101 supersedes and the requirements set forth in the ITB 19-101 shall rule.

END OF DOCUMENT 005200
COEUR D’ALENE TRIBAL EMPLOYMENT
RIGHTS ORDINANCE (T.E.R.O.)
COMPLIANCE PLAN

Date: ________________

Contract/Project Name/No: ______________________________________________

Company Name: _________________________________________________________

Mailing Address: _________________________________________________________
City/State/Zip

Office Phone: ___________________________ Fax #: __________________________

Check One: Contractor/General/Prime () Sub-Contractor ()

All contractors/sub-contractors shall submit a completed Compliance Plan to the TER
Office prior to commencing on any type of work “on or near” the Coeur d’Alene Indian
Reservation. It shall be the responsibility of the General/Prime Contractor to regulate
that all sub-contractor(s) comply with this requirement. Failure of this requirement shall
cause all entities to be deemed in direct violation of the TER Office and shall be subject to
sanctions and penalties as provided in Section 7 of the written Ordinance. As each plan
is submitted and received, the General/Prime Contractor shall receive a letter of
notification listing each sub-contractor(s) that has met this obligation and therefore has
been granted authority to commence work on designated contract.

The Coeur d’Alene TER Office has an active list of all Indian Preference Contractors
and applicants that shall have priority in any/all job classifications and positions for
employment percentage ratio requirements.
Total Contract Bid Amount (of what is on the reservation): $________________________

TERO Fee @ 2%: $________________________

Contract/Project Name/No: ________________________________

Company Name: _________________________________________

Check one: Contractor/General/Prime ( ) Sub-Contractor ( )

Office Phone: __________________________ Job Site Phone: __________________________

Cell Phone: ________________________________

**Core personnel:** A member of a contractor(s) or sub-contractor(s) who is a permanent and a regular employee who shall be listed and used in a Superintendent position. A brief job description of each person listed under Core Crew must accompany your Compliance Plan.

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**Key personnel:** A member of a contractor(s) or sub-contractor(s) team who is a permanent and regular employee who shall be listed and used in a Foreman position. A brief job description of each person listed under Key personnel must accompany your Compliance Plan.

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Please list Key and Core Employees on page 4, Clearance Report.

**Additional Crew Needs:** Employer(s) shall hire from the TERO Indian Preference Applicant List.

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EMPLOYMENT/WORK ORDER FORM

Check One: Contractor/General/Prime ( )  Sub-Contractor ( )

Company Name: ________________________________

Office Phone: ___________________________  Job Site Phone: ___________________________

Cell Phone: ___________________________  Fax Number: ___________________________

Request for following job position: ________________________________

Number of positions: __________  Duration of employment: ___________________________

Rate of pay: ___________________________  Starting Date: ___________________________

Starting time: ___________________________  Location/Meeting Area: ___________________________

Name of Contact person: ________________________________

Brief job description:

________________________________________________________________________

________________________________________________________________________

Equiipment needs:

________________________________________________________________________

________________________________________________________________________

Indian Preference Applicants (TERO OFFICE USE)

1. __________  6. __________

2. __________  7. __________

3. __________  8. __________

4. __________  9. __________

5. __________  10. __________

ALL 24 HOURS NOTICE MUST BE GIVEN TO FILL WORK ORDER
WORK ORDERS MUST BE FILLED OUT PER JOB DESCRIPTION

END OF DOCUMENT 006100
SECTION 011000 – SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including Division 1 Specification Sections, apply to this Section.

B. Refer to Owner’s Invitation to Bid (ITB) for additional project requirements.

1.2 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Coordination with occupants.
5. Work restrictions.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 PROJECT INFORMATION

A. Project Identification: Sheep Creek Salt Shed (Containment Slab) – RE-BID

1. Project Location: ITD Sheep Creek Site in Benewah County; on US-95, 3.3 miles south of Tensed, Idaho on east side of highway.

B. Owner: Idaho Transportation Department, District 1 (Coeur d’Alene)

1. Owner's Representative (Boise): Tony Pirc
2. Owner's Representative (Local): Mike Lenz, District 1

C. Architect: Castellaw Kom Architects, 850 Main Street, Lewiston. ID 83501

1. Architect: Greg Castellaw, AIA
2. Project Manager: Ben Larsen
1.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and is summarized as follows:
   1. New concrete slab to contain salt within the existing pre-engineered metal salt shed building.

B. Type of Contract.
   1. Project will be constructed under a single prime contract.

1.5 SCHEDULE

A. Construction Duration: 30 consecutive calendar days from Notice to Proceed to Substantial Completion.

1.6 ACCESS TO SITE

A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited by the Agency's requirement to carry on operations adjacent to the area of work.

B. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
   1. Keep approach and site driveways available for Owner to access the existing yard area and adjacent Brine Building currently under construction. Do not use these areas for parking or storage of materials.

1.7 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
   1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
   2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.

END OF SECTION 011000
SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including Division 1 Specification Sections, apply to this Section.

B. Refer to Owner’s Invitation to Bid (ITB) for additional project requirements.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.

2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.
D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. **Alternate No. 1:** Use Dayton Superior Bridge Seal 75% in lieu of specified Base Bid sealer.

END OF SECTION 012300
SECTION 025001 – EXISTING PHOTOS (FOR REFERENCE ONLY)

Photos of Existing Salt Shed can be referenced by going to the following link:

https://www.dropbox.com/sh/y6vsoo5u1f1r8h3/AADrimYoLf2Kt34DddpfLdqya?dl=0

END OF SECTION 025001
SECTION 033000 – CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
   A. Drawings and general provisions of the Contract, including Division 1 Specification Sections, apply to this Section.
   B. Refer to Owner’s Invitation to Bid (ITB) for additional project requirements.

1.2 SUMMARY
   A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

1.3 PREINSTALLATION MEETINGS
   A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS
   A. Product Data: For each type of product indicated.
   B. Design Mixtures: For each concrete mixture.
   C. Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement.
   D. Cold weather curing procedures per ACI 308.1 section. 1.5.4.

1.5 QUALITY ASSURANCE
   A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
      1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
   B. Testing Agency Qualifications: An independent agency, qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.
C. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:

1. ACI 301, "Specifications for Structural Concrete," Sections 1 through 5.
2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."
3. ACI 308.1 “Standard Specifications for Curing Concrete”

D. Concrete Testing Service: Owner to engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixtures.

E. Preinstallation Conference: Conduct conference at Project site.


1. Refer to Section 502.01.
2. Contractor to submit a cold-weather concreting plan per 502.03-G or per ACI 306.1 (whichever is more stringent).

PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

A. Smooth-Formed Finished Concrete: Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.

B. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.

2.2 STEEL REINFORCEMENT

A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.

1. Galvanized Reinforcing Bars: ASTM A 767/A 767M, [Class I] [Class II] zinc coated after fabrication and bending.
2. Epoxy-Coated Reinforcing Bars: ASTM A 775/A 775M, epoxy coated, with less than 2 percent damaged coating in each 12-inch bar length.

B. Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M, plain, fabricated from as-drawn steel wire into flat sheets.


D. Galvanized-Steel Welded Wire Reinforcement: ASTM A 185/A 185M, plain, fabricated from galvanized-steel wire into flat sheets.

E. Epoxy-Coated Welded Wire Reinforcement: ASTM A 884/A 884M, Class A coated, Type 1, plain steel.
2.3 CONCRETE MATERIALS

A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:

1. Portland Cement: ASTM C150, C595, C1157, Type (variable, see requirements from ACI 318 table 4.3.1 with F3 exposure. Color gray.

B. Normal-Weight Aggregates: ASTM C 33, graded.

1. Maximum Coarse-Aggregate Size 1-1/2 inch nominal.
2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.


2.4 ADMIXTURES


B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride. Verify all admixtures with the Engineer of Record and Architect.

1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
2. Retarding Admixture: ASTM C 494/C 494M, Type B.
3. Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.
4. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
5. High-Range, Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type G.
6. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

2.5 VAPOR RETARDERS

A. Sheet Vapor Retarder: ASTM E 1745, Class [A] [B] [C]. Include manufacturer's recommended adhesive or pressure-sensitive tape.

B. Sheet Vapor Retarder: Polyethylene sheet, ASTM D 4397, not less than 15 mils thick.
2.6 CURING MATERIALS

A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.

C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

D. Water: Potable.

E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.

F. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, nondissipating[ certified by curing compound manufacturer to not interfere with bonding of floor covering].

G. Clear, Solvent-Borne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A.

   1. VOC Content: Curing and sealing compounds shall have a VOC content of 200 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

H. Clear, Waterborne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A.

   1. VOC Content: Curing and sealing compounds shall have a VOC content of 200 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.7 RELATED MATERIALS


   1. Verify joint filler and sealer are compatible products.

2.8 CONCRETE MIXTURES

A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301 and ACI 318-11 with exposure class F3.

B. Cementitious Materials: Use fly ash, pozzolan, ground granulated blast-furnace slag, and silica fume as specified in ACI 318-11 table 4.3.1 and the specified concrete type based on availability. Coordinate with concrete supplier, Engineer and Architect to select mix design to ensure F3 exposure requirements.
C. Admixtures: Use admixtures according to manufacturer's written instructions.
   1. Use water-reducing admixture in concrete, as required, for placement and workability.
   2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
   3. Use water-reducing admixture in pumped concrete, concrete for heavy-use industrial slabs and parking structure slabs, concrete required to be watertight, and concrete with a water-cementitious materials ratio below 0.50.

D. Proportion normal-weight concrete mixture as follows:
   1. All exposed slab on grade, walls, and footings:
      a. Compressive Strength (28 day): 4,500 psi
      b. Cement Type: ASTM C150, or ASTM C595, or ASTM C1157 (follow the requirements of ACI 318-11 table 4.3.1 for F3 exposure.)
      c. Water-Cement Ratio: 0.45 by weight, maximum
      d. Air content (do not use with trowel finish): 6%
      e. Slump: 4" +/- 1"
      f. F3 exposure requirements to be 0.10% Minimum expansion when tested using ASTM C1012 at 18 months. See table 4.5.1 ACI318-11

2.9 FABRICATING REINFORCEMENT
   A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

2.10 CONCRETE MIXING
   A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M and ASTM C 1116/C 1116M, and furnish batch ticket information.
      1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 FORMWORK
   A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.

   B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.

   C. Chamfer exterior corners and edges of permanently exposed concrete.
3.2 EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 VAPOR RETARDERS

A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.

1. Lap joints 6 inches and seal with manufacturer's recommended tape.

3.4 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.

1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

3.5 JOINTS

A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.

B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.

C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:

1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch (3.2 mm). Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.

2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.

D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.
3.6 CONCRETE PLACEMENT

A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.

B. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.

   1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.

C. Cold-Weather Placement: Comply with ACI 306.1 or ITD 502.03-G.

D. Hot-Weather Placement: Comply with ACI 301.

3.7 FINISHING FORMED SURFACES

A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.

   1. Apply to concrete surfaces not exposed to public view.

B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.

   1. Apply to concrete surfaces exposed to public view.

C. Rubbed Finish: Apply the following to smooth-formed finished as-cast concrete where indicated:

   1. Smooth-Rubbed Finish: Not later than one day after form removal, moisten concrete surfaces and rub with carborundum brick or another abrasive until producing a uniform color and texture. Do not apply cement grout other than that created by the rubbing process.

   2. Grout-Cleaned Finish: Wet concrete surfaces and apply grout of a consistency of thick paint to coat surfaces and fill small holes. Mix one part portland cement to one and one-half parts fine sand with a 1:1 mixture of bonding admixture and water. Add white portland cement in amounts determined by trial patches so color of dry grout will match adjacent surfaces. Scrub grout into voids and remove excess grout. When grout whitens, rub surface with clean burlap and keep surface damp by fog spray for at least 36 hours.

   3. Cork-Floated Finish: Wet concrete surfaces and apply a stiff grout. Mix one part portland cement and one part fine sand with a 1:1 mixture of bonding agent and water. Add white portland cement in amounts determined by trial patches so color of dry grout will match adjacent surfaces. Compress grout into voids by grinding surface. In a swirling motion, finish surface with a cork float.
D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.8 FINISHING FLOORS AND SLABS

A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.

B. Scratch Finish: While still plastic, texture concrete surface that has been screeded and bull-floated or darbied. Use stiff brushes, brooms, or rakes to produce a profile amplitude of 1/4 inch in one direction.

C. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth, granular texture.

D. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.

1. Apply a trowel finish to surfaces [indicated] [exposed to view.] [or] [to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin-film-finish coating system] <Insert locations>.

2. Finish and measure surface so gap at any point between concrete surface and an unleveled, freestanding, 10-ft-long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/8 inch.

E. Trowel and Fine-Broom Finish: Apply a first trowel finish to surfaces where ceramic or quarry tile is to be installed by either thickset or thin-set method. While concrete is still plastic, slightly scarify surface with a fine broom.

1. Comply with flatness and levelness tolerances for trowel-finished floor surfaces.

F. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, ramps, and elsewhere as indicated.

3.9 CONCRETE PROTECTING AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.

B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer’s written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
C. Cure concrete according to ACI 308.1 section 1.7 “Curing in cold weather”. Follow submittal procedure in ACI 308.1 section 1.5.4: Submit cold weather curing procedures at least 1 month prior to cold weather concreting.

1. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer’s written instructions. Recount areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.

3.10 CONCRETE SURFACE REPAIRS

A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect’s approval.

3.11 FIELD QUALITY CONTROL

A. Testing and Inspecting: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

END OF SECTION 033000
SECTION 033500 – CONCRETE FINISHING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Finishing concrete floors
   2. Floor surface treatment

B. Related Sections:
   1. Section 03 30 00 - Cast-In-Place Concrete: Prepared concrete floors ready to receive finish; control and formed expansion and contraction joints and joint devices

1.2 REFERENCES

A. American Concrete Institute:
   1. ACI 301 - Specifications for Structural Concrete
   2. ACI 302.1 - Guide for Concrete Floor and Slab Construction
   3. ACI 318 – Building Code Requirements for Structural Concrete
   4. ACI 360R – Design of Slabs on Ground

B. ASTM International:
   1. ASTM E1155 - Standard Test Method for Determining Floor Flatness and of Levelness Using the F-number System

1.3 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures

B. Product Data: Submit data on concrete hardener, sealer, curing compounds, coatings, and slip resistant treatment, compatibilities, and limitations

1.4 CLOSEOUT SUBMITTALS

A. Section 01 70 00 - Execution and Closeout Requirements: Closeout procedures

B. Operation and Maintenance Data: Submit data on maintenance renewal of applied coatings

1.5 QUALITY ASSURANCE

A. Perform Work in accordance with ACI 301 and ACI 302.1

B. Provide results of concrete cylinder test to Structural Engineer within 2 days of test.

1.6 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum three years documented experience

B. Applicator: Company specializing in performing work of this section with minimum three years documented experience and approved by the manufacturer

1.7 MOCK-UP

A. Section 01 40 00 - Quality Requirements: Requirements for mockup
B. Construct mock-up area under conditions similar to those, which will exist during actual placing, three feet long by three feet wide, with specified finishes, and coatings applied

C. Locate where directed by Architect

D. Incorporate accepted mockup as part of Work

E. Remove unacceptable mockup as directed by Architect

1.8 DELIVERY, STORAGE, AND HANDLING

A. Section 01 60 00 - Product Requirements: Product storage and handling requirements

B. Deliver materials in manufacturer's packaging including application instructions

1.9 ENVIRONMENTAL REQUIREMENTS

A. Section 01 60 00 - Product Requirements: Environmental conditions affecting products on site

B. Temporary Lighting: Minimum 200 W light source, placed 8 feet above floor surface, for each 425 sq ft of floor being finished

C. Do not finish floors until interior ambient temperature is above 50 degrees F

D. Ventilation: Sufficient to prevent injurious gases from temporary heat or other sources affecting concrete

1.10 COORDINATION

A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions

B. Coordinate the Work with concrete floor placement and concrete floor curing

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:
   1. Dayton Superior Corporation
   2. Euclid Chemical Company
   3. L&M Construction Chemicals, Inc
   4. W.R Meadows, Inc
   5. Sika Corporation U.S.
   6. Substitutions: Section 01 60 00 - Product Requirements

2.2 COMPOUNDS - HARDENERS AND SEALERS

A. Sealer: high performance silane based reactive water repellent penetrating sealer.
   1. Basis of Design:
      a. Base Bid: Sikagard-705L by Sika Corporation U.S.
      b. Alt. 1: Dayton Superior Bridge Seal 75%

B. Curing: as specified in Section 03 33 00

C. Hardener: non-yellowing, liquid type
PART 3 - EXECUTION

3.1 EXAMINATION
   A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions
   B. Verify floor surfaces are acceptable to receive the Work of this section
   C. Provide concrete cylinder testing at 5, 10, 15 days, in accordance with ACI 318: 5.6.

3.2 FLOOR FINISHING
   A. Cure concrete floor surfaces as specified in Section 03 39 00
   B. Finish concrete floor surfaces in accordance with ACI 301 and ACI 302.1
   C. Steel trowel surfaces receiving carpeting, resilient flooring, seamless flooring, and thin set ceramic tile
   D. Steel trowel surfaces which are indicated to be exposed
   E. In areas with floor drains, maintain design floor elevation at walls; slope surfaces uniformly to drains at 1/8 inch per foot nominal

3.3 FLOOR SURFACE TREATMENT
   A. Apply sealer on floor and wall surfaces

3.4 TOLERANCES
   A. Section 01 40 00 - Quality Requirements: Tolerances
   B. Maximum Variation of Surface Flatness For Exposed Concrete Floors: 1/8 inch in 10 ft
   C. Maximum Variation of Surface Flatness Under Seamless Resilient Flooring: 1/8 inch in 10 ft
   D. Maximum Variation of Surface Flatness Under Carpeting: 1/8 inch in 10 ft
   E. Correct defects in defined traffic floor by grinding or removal and replacement of defective Work
      1. Areas requiring corrective Work will be identified
      2. Re-measure corrected areas by same process

3.5 SCHEDULES
   A. Refer to Room Finish Schedule for floor finishes

END OF SECTION 033500
SECTION 312000 – EARTH MOVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Preparing subgrades for slabs-on-grade.
2. Excavating and backfilling for buildings and structures.
3. Drainage course for concrete slabs-on-grade.

1.3 DEFINITIONS

A. Backfill: Soil material used to fill an excavation.
B. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
C. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.
D. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.

E. Fill: Soil materials used to raise existing grades.
F. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
G. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.
1.4 QUALITY ASSURANCE
   
   A. Preexcavation Conference: Conduct conference at Project Site with General Contractor, Project Manager, Architect, and Owner prior to excavation.

1.5 PROJECT CONDITIONS
   
   A. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth moving operations.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS
   
   A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

   B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.

   C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.
      
      1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

   D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

   E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve.

   F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

   G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.

   H. Drainage Course: Narrowly graded mixture of crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch (37.5-mm) sieve and 0 to 5 percent passing a No. 8 (2.36-mm) sieve.
PART 3 - EXECUTION

3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.

B. Protect and maintain erosion and sedimentation controls during earth moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 EXCAVATION, GENERAL

A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

   1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

3.3 EXCAVATION FOR STRUCTURES

A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.

   1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

3.4 SUBGRADE INSPECTION

A. Proof-roll subgrade below the building slabs and pavements with a pneumatic-tired dump truck to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.

B. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.
3.5 UNAUTHORIZED EXCAVATION

A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Architect.

1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

3.6 STORAGE OF SOIL MATERIALS

A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.7 SOIL FILL

A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

B. Place and compact fill material in layers to required elevations as follows:
   1. Under walks and pavements, use satisfactory soil material.
   2. Under building slabs, use engineered fill.
   3. Under footings and foundations, use engineered fill.

3.8 SOIL MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.

1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.9 COMPACTION OF SOIL BACKFILLS AND FILLS

A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.

C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 698.

1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent.
2. Under walkways, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 92 percent.

3.10 GRADING

A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:

1. Walks: Plus or minus 1 inch

C. Grading inside Building Lines: Finish subgrade to a tolerance of 1/2 inch when tested with a 10-foot straightedge.

3.11 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.

B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:

1. Shape subbase course and base course to required crown elevations and cross-slope grades.
2. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
3. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 1557.

3.12 DRAINAGE COURSE UNDER CONCRETE SLABS-ON-GRADE

A. Place drainage course on subgrades free of mud, frost, snow, or ice.
B. On prepared subgrade, place and compact drainage course under cast-in-place concrete slabs-on-grade as follows:

1. Place drainage course that exceeds 6 inches (150 mm) in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches (150 mm) thick or less than 3 inches (75 mm) thick.
2. Compact each layer of drainage course to required cross sections and thicknesses to not less than [95] <Insert number> percent of maximum dry unit weight according to ASTM D 698.

3.13 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.

D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.14 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.15 SURPLUS AND WASTE MATERIALS

A. Surplus soils from excavation can be located at the project site, north of the existing salt shed. See photos below for reference. Additional area for surplus soils can be accommodated elsewhere on site if needed.