



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0016

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

December 22, 2010
Subject: **Brooksville,
Callahan Mine**
Federal Project No: 12521.08
State Pin No: 012521.08
Amendment No. 4

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 21 and 22), **REMOVE** the "BID SCHEDULE", 2 pages and **REPLACE** with the attached new "BID SCHEDULE" 2 pages total.

In the Bid Book (pages 208-217), **REMOVE** "SECTION 01 2210, MEASUREMENT AND PAYMENT", 10 pages and **REPLACE** with the attached new "SECTION 01 2210, MEASUREMENT AND PAYMENT", 11 pages.

In the Bid Book (pages 310-313), **REMOVE** "SECTION 31 2316.26, ROCK REMOVAL", 4 pages and **REPLACE** with the attached new "SECTION 31 2316.26, ROCK REMOVAL", 4 pages total.

Attached, please find an updated copy of the "MANDATORY PRE BID MEETING SIGN-IN".

The following questions have been received:

Question: Please refer to specification page 241, section 01 4000.3.05. Should only the initial confirmatory soil sampling and testing completed at the excavation limits identified on the drawings be included in the base bid unit price and lump sum items? If so, please provide additional unit price bid items for all additional excavation, sampling & testing, and backfill associated with over-excavation beyond the limits of work if unacceptable confirmatory sampling results are obtained.

Response: Refer to "Pre Bid Meeting Questions and Answers" in Amendment #3.



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Question: The specifications define where a lot of trees and plantings we disturb get replaced. Some of these trees and plantings are quite mature and large. Can you define a specific size or caliper of tree or planting you want to replace them with?

Response: The contractor should assume a replacement size of 6-10 feet for the larger trees.

Question: What are the DBE/MBE goals for this project? Or, do the Contractors have to show a good faith effort?

Response: The Maine DEP has negotiated the following, applicable MBE/WBE fair share objectives/goals with EPA as follows:

- MBE: COMBINED 1.11%
- WBE: COMBINED 4.34%

Question: Is there any Rock removal in the residential areas?

Response: Yes, there will be rock removed from the blasting associated with installation of subsurface wastewater piping and chambers and the boat ramp. Refer to Technical Specifications Section 31 2316.26 and Section 33 3600.

Question: Is Maine going to require the municipal road usage bond? (105.5.2 of General Conditions)

Response: As a condition of issuing an overlimit permit, the municipality may require a maintenance bond. This is dependant on if a permit is required, which particular roads are impacted, and nature of the overlimit request. With this many variables, a determination cannot be made without a specific overlimit request.

Question: Generally, CERCLA projects include provisions in the contract that contain an indemnity clause whereby the owner agrees to hold the Contractor harmless for pollution/contamination claims. We have not found this provision in section 110. Will this clause be included in a future addendum?

Response: The state cannot indemnify anyone without legislative approval. I doubt that can occur in time. EPA is not a party to the contract. EPA will not include an indemnification.

Question: Specification 31 2316.26 details Rock Removal requirements which may be necessary during the installation of the wastewater treatment system's piping and chambers. Can a unit price bid item be added to account for Rock/Ledge removal?

Response: Yes. Technical Specifications Section 01 2210 – Measurement and Payment and Section 31 2316.26 – Rock Removal, and the Bid Schedule have been revised to clarify blasting and rock removal.

Question: Bid Item #1 – Mobilization. Please refer to specification section 01 2210, Measurement & Payment, section 1.02.A.1.a, last sentence – “Cost for mobilization shall not exceed 5% of the total bid amount.” This conflicts with Specification page 96 (page 1-63) Section 108.2.3. Please clarify which specification section applies for the payment terms for the Mobilization bid item.

Response: Section 108.2.3 of the General Conditions shall take precedence. The Bid Schedule and Technical Specifications Section 01 2210 – Measurement and Payment have been revised as appropriate.

Question: For the DBE Utilization Form to be submitted with the other bid forms, is there a DBE participation percentage goal? (Percentage of contract value)

Response: The Maine DEP has negotiated the following, applicable MBE/WBE fair share objectives/goals with EPA as follows:

- MBE: COMBINED 1.11%
- WBE: COMBINED 4.34%

Question: Specification pages 431, 437 and 441 – What are the sizes required for the plants listed?

Response: The bidder is to replace the existing plants with a similar size plant to the extent possible up to 10 feet in height.

Question: Draft OU1 Residential Lot Restoration Plan – Tables 2-1, 2-2, 2-3 and 2-4 have several trees, shrubs and a wall listed with a “Status of Replace” that on the corresponding Tables 3-1, 3-2, 3-3 and 3-4 (Replacement Items) are not listed. What should we do with these items?

Response: The Contractor is responsible for completing the Draft OU1 Residential Lot Restoration Plan. The bidder shall assume that all items that have a status of “replace” shall be replaced even if they are not listed in Tables 3-1, 3-2, 3-3, and 3-4.

Question: Other items missing on Replacement Lists from Existing Conditions Lists are: Table 2-1:Ds3, Ds4, Ds5, Ds16, Ds17, Ds18, Ds20, Ct2, Ct3, Ct4, Ct5, Dt6, Dt7, Dt8, and Dt9

Table 2-2: Ct7, Ct8, Ct9, Ct10, Ct11, Ct12, Ct13, Ct14, and Ct16

Table 2-3: Dt2, Dt3, Dt4, Dt6, Ds5 and W3

Table 2-4: Dt3, Dt4, Ct6, Ct7, Ct8, Ct9, and Ct10.

Please provide direction.

Response: The Contractor is responsible for completing the Draft OU1 Residential Lot Restoration Plan. The bidder shall assume that all items that have a status of “replace” shall be replaced even if they are not listed in Tables 3-1, 3-2, 3-3, and 3-4.

Question: Bid item 16, Restoration – Please confirm the bid unit is Acres.

Response: Yes. The unit is in acres.

Question: We have accounts planning to bid the Callahan Mine Remediation Project on 1-5-11. We are trying to determine if the State of Maine Superfund statutes exempts Response Action Contractors from strict liability, unless the RAC causes a release through its own negligence, gross negligence or intentional misconduct, similar to the 1986 Superfund Amendments and Reauthorization Act (SARA). We are familiar with the 1990 State of Maine Act to amend the Solid Waste Landfill Remediation and Closure Laws administered by the Department of Environmental Protection but do not believe it includes superfund sites. Are you familiar with any Maine Statutes or amendments that limit the RAC’s liability as stated above or any provision in the contract or specs that holds harmless the RAC in this manner?

Response: As stated, there are provisions in the Superfund law regarding response action contractors. The contractor is responsible for understanding what protection these provisions may provide.

Question: In Addendum #3 it is stated that a licensed PE has been retained by the MDEP for this project. Does this override the requirement of having a Maine PE on the project team for all Contractors?

Response: No. The Contractor is still required to retain an independent State of Maine PE.

Question: Does the source of the TSCA waste exceed 500 ppm?

Response: The source is unknown.

Question: Would the State consider waiving the insurance requirements 110.3.5, 110.3.6 OCP and Builders Risk requirements as these are not applicable to environmental work?

Response: No. There are other aspects of the project (e.g., Residential Use Area) that are applicable to the insurance requirements of 110.3.5 and 110.3.6.

Question: Drawing C-6 shows 8”x 8” Steel I beams for guard rail system, are they existing or do they need to be provided?

Response: The 8”x8” steel I-beams are existing.

Question: The specifications say no explosives can be used, can they be used to remove outcrop for boat ramp installation?

Response: Yes. Explosives will be allowed rock removal associated with installation of the boat ramp. The Bid Schedule and Technical Specifications Section 01 2210 – Measurement and Payment and Section 31 2316.26 – Rock Removal have been revised to reflect this.

Question: Will the DEP survey property lines of residential property?

Response: Yes

Question: The specifications mention light pole bases; please provide details on where these are?

Response: This contract does not include light pole bases.

Question: Please provide pump sizes and specifications for force main sumps on septic systems.

Response: The pump sizes and specifications will be provided in an amendment.

Question: The bid pay item sheet says that 2100 cubic yards of soil will be removed from the residential areas and 3800 cubic yards of common borrow will be imported to backfill these areas, please explain the difference in these quantities?

Response: Refer to the response to Question #36 of the Pre-Bid Question and Answers.

Question: The basis of design quantities of PCB disposal differ from the pay items, Are 4000 cubic yards for over 50 ppm PCB disposal and 500 cubic yards for less than 50 ppm disposal accurate?

Response: The Bid Schedule quantity should be used for bidding purposes. The Basis of Design Addendum provides revised estimates based on the pre-excavation delineation work that has been completed.

Question: The summary of work states that CERCLA waste is comingled with petroleum waste, would any of these comingled waste contain UHC's (Underlying Hazardous Constituents) that would require incineration or treatment?

Response: The Technical Specifications Section 01 1000 – Summary of Work provided in the Project Manual does not include provisions for CERCLA waste comingled with petroleum waste. Based on current information available to date there are no Underlying Hazardous Constituents (UHCs) that would require incineration or treatment.

Question: The planting of trees in the residential areas requires replacement of trees in kind, what are the sizes of trees that we can plant?

Response: Refer to the Draft OU1 Residential Lot Restoration Plan (Plan). Most sizes are listed. The bidder is to replace the existing plants with a similar size plant to the extent possible up to 10 feet in height. During finalizing the Plan the Contractor may propose sizes of replacement trees which are currently missing dimensional information.

Question: The tree in place are naturally seeded and may be on bed rock, new replacement trees with large root balls may not survive if there is not enough soil mass to support them. Will the Contractor be liable for the 2 year warranty for planting too close to bed rock?

Response: The Contractor is liable for the 2 year warranty for planting too close to bedrock. It is the Contractor's responsibility to ensure adequate soil mass is provided if replacement trees with large root balls are used.

Question: The posting of roads may prohibit the Contractor from being able to mobilize equipment in time to meet the requirement of June 1st for residential remediation. Will the MEDOT waive the weight restrictions for mobilization of equipment if required?

Response: No. It is the Contractor's responsibility to coordinate mobilization of equipment prior to road postings.

Question: The allowance for the Boat Ramp of \$50,000 appears low. How does the Contractor get compensated for additional costs on this item? What fees are allowed?

Response: Regardless of how the allowance may appear to potential bidders the purpose is to provide each potential bidder with the same bidding information. It is the Contractor's responsibility to complete the installation details of the boat ramp. The actual cost of the boat ramp is dependent upon the details. The Contractor awarded the work will be compensated by an agreed upon unit of measure once the details are reviewed and approved.

Question: It appears that it is the Contractors responsibility to arrange meetings with the Home Owners. Will the home owner be available prior to the construction process? If the home owners have to travel to meetings, is the Contractor responsible for their travel costs?

Response: Meetings may be performed via telephone, email, video conference, etc. The homeowner is not required to travel to meetings. It is the Contractor's responsibility to communicate efficiently and effectively with the homeowner by means that do not cause expense to the homeowner. The Contractor may elect to absorb homeowner travel costs associated with meetings.

Question: It appears that the Contractor is left with the burden of making the home owners satisfied with the work. What is the mechanism for dispute resolution between the home owner and the Contractor if the work per plan has been completed and the home owner is not satisfied?

Response: EPA and Maine DEP have met with each property owner and will continue to be the lead contact for discussion with the property owners. Draft restoration plans have been prepared based on these discussions and shall be finalized by the Contractor in accordance with the specifications. EPA and Maine DEP will continue to assist the Contractor with any communications necessary with the property owners.

Question: After reviewing the RFP in detail, it appears that more time may be needed to put a quality package together with the holidays taken into consideration. Would you consider an extension to 15 Jan 2011?

Response: No. An extension has been granted until January 5, 2011 at 11:00 am.

Question: Ref Drawing C2, Does access to residents need to be provided during soil removal or has MEDEP arranged to have homeowners temporarily vacate properties?

Response: Residents have vacated respective premises. Residents return on June 1, 2011. The Contractor must have the Residential Use Area complete by June 1, 2011 as stated in the Contract Documents.

Question: Ref Drawing C2, C2 does not mention restoration (Bid item 16), is restoration planned consistent with pages 389 through 392 of bid doc? Have the plantings on pages 389-392 been horizontally located? How will the final location of the plantings be judged? Have residence owners agreed to pages 389-392?

Response: Pages 389-392 are included in the DRAFT OU1 Residential Lot Restoration Plan (Plan). The planned restoration is consistent with the Plan. It is the Contractor's responsibility to finalize the Plan. The horizontal location of the plantings are shown on pages 389-392. Residence owners have agreed to pages 389-392 in the DRAFT form.

Question: Ref Drawing C2, No planting plan has been prepared for Lot E. It is understood MEDEP will facilitate the restoration plan for LOT E. When will the Lot E restoration plan be available to bidders?

Response: The understanding that MDEP will facilitate the restoration plan for LOT E is incorrect. The Contractor is responsible for finalizing the restoration plans, including Lot E. Refer to page 224 (Section 01 3000 1.01 B.2.f.) and page 206 (Section 01 1000 1.02 B).

Question: Ref Drawing C3, The volume of the ore deposite/pad is calculated to contain $(90161 \times 5 / 27) \approx 16000$ cy of material to be relocated to east side of interim stockpile area. The note for the interim stockpile indicates 25,000 cy fill required for grading ... where will the additional 9000 cy be obtained?

Response: Sheet C3 shows proposed contours for an interim stockpile that has the potential to hold 25,000 cy. The bidder should assume 16,700 cy as indicated on the Bid Schedule under Item 8.

Question: Ref Drawing C3, Is there any verification testing for the completeness of ore removal/relocation?

Response: Refer to Sheet C3. The depth of ore material will be approved by the owner's on site Resident.

Question: Ref Drawing C3, Do all concrete pads get demolished or only the portions in/adjacent to soil remediation areas?

Response: All of the concrete slabs and foundations shown on Sheet C3 are part of the contract.

Question: Ref Drawing C3, What are the horizontal limits for the geomembrane over the interim stockpile? Will MEDEP make final determination for lateral limits ... this could affect procurement/scheduling.

Response: The horizontal limits for the geomembrane over the interim stockpile should be assumed as the area shown by the proposed contours (see Sheet C3) plus the area needed for the anchor trench. Contractor should use the square footages provided in the Bid Schedule for bidding geosynthetics.

Question: Ref Drawing C3, Once stockpile is covered, runoff will collect at toe of slope...are there any requirements for where storm water will be diverted to...ultimately storm water will go to Dyer Cove.

Response: The Contractor is responsible for preparing a Sediment and Erosion Control Plan that will outline the storm water management requirements. Refer to page 223 (Section 01 3300 1.01.B.1.).

Question: Ref Drawing C3, at the site pre-bid meeting...was it said that fill material is available on site? If so, is there sufficient fill available to complete the grading for the interim stockpile area? Where is the fill located on the site?

Response: Borrow material is available within the Callahan Mine property on-site for constructing access roads.

Question: Ref Drawing C4, Callout says “Discontinue Existing Well By Others”... does this occur before or after soil removal? What provision should contractor make for coordinating with “others”?

Response: The schedule for the well removal has not been determined. This work will not interfere with the soil removal and will not require the contractor to make provisions for coordinating with others.

Question: Ref Drawing C5, lot E plan shows leach field location on abutting property. Should this be a concern to bidder? Will MEDEP obtain permission from abutter?

Response: The bidder should assume that this will not be a concern to bidder. MDEP will be responsible for obtaining an easement to place disposal area and distribution line as shown on Plan.

Question: Ref Drawing C6, Relative to existing boat ramp...the note for the existing boat ramp says “remove and replace existing boat ramp”...is this what is intended by MEDEP given construction of new ramp nearby?

Response: The intent of the note is to remove existing boat ramp and replace with the new proposed ramp.

Question: Ref Drawing C6, Does filling coastal wetland (near boat ramps) come under CERCLA exemption for permits?

Response: Refer to response to questions 1 and 2 from the pre-bid question and answers.

Question: Ref Drawing C6, There appears to be no riprap detail or typical section provided in the plans and there is only one mention of riprap in the project manual. Riprap note on C6 suggests riprap to extend to water elevation observed on 9/28/2010...is there any reference or datum for the observed elevation?

Response: Survey data will be provided by MDEP after work is awarded. For bidding purposes contractor should assume that rip rap is included in the Boat Ramp Item in the Bid Schedule (Item 18). The Bid Schedule and Measurement and Payment Section have been revised to reflect this.

Question: Ref Drawing C7, is there a location established for the anchor detail on C3?

Response: The location can be determined from the proposed contours shown on Sheet C3.

Question: Pg 75, 105.8.5 discusses dredge spoils...does MEDEP expect any dredge spoils to be connected to the project?

Response: No

Question: Pg 147, figure 4 shows conceptual long-term surface water runoff management area from C3 area...should there be any consideration for area where high TPH soil has been previously detected?

Response: No

Question: Pg 242, There is discussion of cleanup levels for Petroleum Contaminated Soils and testing for petroleum hydrocarbons...page 199 says that no remediation of

petroleum contaminated soils is necessary... will petroleum hydrocarbon testing be necessary as part of post-excavation sampling/testing?

Response: Petroleum hydrocarbon testing is currently not part of post-excavation sampling/testing.

Question: Pg 268. "D.1" says no brush; branches ...stumps can be disposed on-site. Considerable tree removal will be necessary as part of Residential Area remediation. The stump root balls will likely hold contaminated soil...what does MEDEP intend relative to stumps and balls and possible associated soil? Can stumps be buried on site?

Response: Contaminated stump and roots balls should be disposed of with the Residential Use soil. Page 268, 1.01. D.1. should be revised to specify stumps and root balls are included with the Residential Use soils.

Question: Pg293. "2.8" indicates a third-party geotechnical laboratory be used for borrow source testing. Is it necessary that the geotechnical laboratory be a third party if the contractor (or subcontractor) has geotechnical laboratory and field compaction testing capabilities?

Response: Yes

Question: Pg 297. "3.11" states that a testing service be used to measure soil compaction. Is it necessary that the testing service be a third party if the contractor (or subcontractor) has geotechnical laboratory and field compaction testing capabilities?

Response: Yes

Question: Pg 299. "C.2" says can be buried on site...is there any sensitivity to possible contaminated soil on stumps? Please see non-on-site disposal language for stumps on page 268 and clarify.

Response: Contaminated stump and roots balls should be disposed of with the Residential Use soil. Page 268, 1.01. D.1. should be revised to specify stumps and root balls are included with the Residential Use soils.

Question: Pg 276 states...Engage a professional photographer of construction projects with a minimum of three years experience. Given the quality of digital cameras and software today and the remote location of the project, it seems unnecessary cost to carry in the job to have someone go to the jobsite that often just to take a few photos.

Response: The professional photographer may be employed by the Contractor or Subcontractor as long as that person has a minimum of three years experience capturing photographs.

Question: Reference Spec page 242, section 01 4000.3.05.F and 3.06.A. In 3.05.F, items 1 and 2 indicate that clean-up levels are based on PCB and EPH/VPH testing requirements which matches the testing described in 3.06.A. Does this include the Ore Pad excavation and PCB excavation areas in the Mine Operations area?

Response: There is no conflict between sections 305.F and 306.A. Section 305.F defines the cleanup levels and Section 306.A defines the methods. The PCB cleanup level applies to all areas subject to the PCB cleanup, which is primarily the Mine Operations Area unless the confirmatory sampling causes the PCB to expand into another sub-area of the Site (Waste Rock Pile 2 or the Ore Pad). The cleanup levels in 305.A apply for the residential use area as do the methods in 306. The excavation of the Ore Pad material will be based on visual delineation at discretion of engineer as indicated on Page 204 and 206. They should assume complete remove of the area designated as the Ore Pad. There is no confirmation sampling requirement for the Ore Pad.

Question: Reference Spec page 242, section 01 4000.3.05.F and 3.06.A. In 3.05.F, items 3, 4 and 5 indicate arsenic, thallium and lead clean up. Does the Residential Use Area confirmatory soil testing need to conform to 3.06.A or to confirm the clean-up levels described in 3.05.F?

Response: There is no conflict between sections 305.F and 306.A. Section 305.F defines the cleanup levels and Section 306.A defines the methods. The PCB cleanup level applies to all areas subject to the PCB cleanup, which is primarily the Mine Operations Area unless the confirmatory sampling causes the PCB to expand into another sub-area of the Site (Waste Rock Pile 2 or the Ore Pad). The cleanup levels in 305.A apply for the residential use area as do the methods in 306. The excavation of the Ore Pad material will be based on visual delineation at discretion of engineer as indicated on Page 204 and 206. They should assume complete remove of the area designated as the Ore Pad. There is no confirmation sampling requirement for the Ore Pad.

Consider these changes and information prior to submitting your bid on **January 5, 2011**.

Sincerely,



Scott Bickford

Contracts & Specifications Engineer

**OPERABLE UNIT 1 REMEDIATION – CALLAHAN MINE SUPERFUND SITE, BROOKSVILLE,
MAINE
BID SCHEDULE**

ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE (NUMERALS)	TOTAL AMOUNT
1	Mobilization	1	LS		
2	Remedial Action Work Plans	1	LS		
3	Erosion and Sedimentation Control	1	LS		
4	Clearing and Grubbing	4.75	AC		
5	Rough Grading	4.75	AC		
6	Residential Use Area Excavation and Stockpiling	2,100	CY		
7	Residential Use Area Sampling and Analysis	450	EACH		
8	Ore Pad Removal and Stockpiling	16,700	CY		
9	Common Borrow	3,800	CY		
10	Interim Stockpile Cover	1,100	CY		
11	16 oz Non-Woven Geotextile	60,000	SF		
12	60 mil HDPE Geomembrane	60,000	SF		
13	Double Sided Geocomposite	60,000	SF		
14	Aggregate Base	250	CY		
15	Aggregate Subbase	600	CY		
16	Topsoil	820	CY		
17	Restoration	4.75	UNIT		
18	Boat Ramp	1	ALLOW	\$50,000	\$50,000
19a	Wastewater Treatment and Disposal Fasnacht Tax Map 9 Lot 28	1	LS		

**OPERABLE UNIT 1 REMEDIATION – CALLAHAN MINE SUPERFUND SITE, BROOKSVILLE,
MAINE
BID SCHEDULE**

ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE (NUMERALS)	TOTAL AMOUNT
19b	Wastewater Treatment and Disposal Sandecki & Betts Tax Map 9 Lot 29	1	LS		
19c	Wastewater Treatment and Disposal Peters Tax Map 9 Lot 31	1	LS		
19d	Wastewater Treatment and Disposal Gray Tax Map 9 Lot 32	1	LS		
20	PCB \geq 50 ppm Excavation	500	CY		
21	PCB \geq 50 ppm Disposal	750	TON		
22	PCB \leq 50 ppm Excavation	4,000	CY		
23	PCB \leq 50 ppm Disposal	6,000	TON		
24	PCB Area Sampling and Analysis	250	EACH		
25	Demolition	1	LS		
26	Remedial Action Report	1	LS		
27	Rock Removal	500	CY		

TOTAL BID _____

ALTERNATE A – OLD MINE ROAD PAVING					
A1	2" 19 mm HMA	175	TON		
A2	1½" 12.5 mm HMA	130	TON		

Total Alternate A _____

SECTION 01 2210

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SCOPE

- A. Payment for various items shown on the Bid Schedule, as further specified herein shall include all compensation to be received by the Contractor for furnishing all tools, equipment, supplies, materials and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of the work all in accordance with the requirements of the Contract Documents, including all appurtenances thereto, and including all costs of compliance with the regulations of public agencies having jurisdiction. No separate payment will be made for any item that is not specifically set forth in the Bid Schedule, and all costs, therefore, shall be included in the prices named in the Bid Schedules for the various appurtenant items of work.

1.02 METHOD OF MEASUREMENT AND PAYMENT

- A. Measurement and payment for items shown on the Bid Schedule will be made in the manner presented below for each bid item.

1. Mobilization

- a. Mobilization costs are costs of initiating and executing the contract, general contract administration costs, insurance and bonds, and the providing of facilities and controls not part of the project but necessary to administer and construct the project (refer to Section 01 3000). Costs for Mobilization shall not exceed ten (10) percent of the total amount of the Bid.
- b. Payment for Mobilization shall be at the lump sum price as indicated in the Bid Schedule as Item No. 1 and shall be payable when required facilities have been provided and the Contractor has substantially commenced work on site.

2. Remedial Action Work Plans

- a. Remedial Action Work Plans for the Mine Operations Area to include Draft and Final Implementation Drawings, Construction Quality Control Plan for Remediation and Cover System, Off-Site Shipment and Disposal Plan, Site Management Plan, Site Health and Safety Plan, Sediment and Erosion Control Plan, and Interim Stockpile Plan. In addition, Remedial Action Work Plans for the Residential Use Area include Draft and Final Implementation Drawings, Construction Quality Control Plan for Remediation and Cover System, Sediment and Erosion Control Plan, Site Management Plan, Interim Stockpile Plan, and Property Restoration Plans.

- b. Payment for Remedial Action Work Plans for Mine Operations and Residential Use Areas shall be considered a lump sum price as indicated in the Bid Schedule under Item 2, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents, and specified in the Project Manual.

3. Erosion and Sedimentation Control

- a. Erosion and Sedimentation Control shall include installation of preventive measures in place prior to disturbance of surface cover, stockpiling of materials, and before precipitation occurs, and maintenance of preventive measures until final completion of work. Erosion Control measures shall control increased storm water runoff, minimize wind, water, and vehicular erosion of soil on project site, prevent erosion of soil and deposition of soils on other properties caused by water leaving the project site, prevent sedimentation of waterways on the project site, prevent sedimentation of waterways off the project site, and prevent standing water that could become stagnant due to construction activities for this project.
- b. Payment for Erosion and Sedimentation Control shall be considered a lump sum price as indicated in the Bid Schedule under Item 3, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted in place by the Resident, in accordance with the Contract Documents, and specified in the Project Manual.

4. Clearing and Grubbing

- a. Measurement for Clearing and Grubbing shall be made at the unit measure indicated on the Bid Schedule to include removal of all existing debris and waste above ground, stumps, and roots in areas within the limits of excavation shown on the Drawings.
- b. Payment for Clearing and Grubbing shall be considered a unit price as indicated in the Bid Schedule under Item 4, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents, and specified in the Project Manual.

5. Rough Grading

- a. Measurement for Rough Grading shall be made at the unit measure indicated on the Bid Schedule to include grading in accordance with Contract Documents for the areas shown for contouring at Ore Pad area and PCB Area to promote drainage.

- b. Payment for Rough Grading shall be considered a unit price item as indicated in the Bid Schedule under Item 5, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

- 6. Residential Use Area Excavation and Stockpiling
 - a. Measurement for Residential Use Area Excavation and Stockpile shall be made at the unit measure indicated on the Bid Schedule to include excavation of soils contaminated with arsenic, thallium, and lead exceeding site-specific cleanup levels in the Residential Use Area identified on the drawings. In addition, all on-site hauling, placement, demarcation layer, and compaction of contaminated soils referenced above is included in this item for placement at the Tailings Impoundment area.

 - b. Payment for Residential Use Area Excavation/Stockpile shall be considered a unit price item as indicated in the Bid Schedule under Item 6, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

- 7. Residential Use Area Sampling and Analysis
 - a. Measurement for Residential Use Area Sampling and Analysis shall be made at the unit measure indicated on the Bid Schedule to include field sampling and laboratory analysis of soils/material for confirmatory purposes and re-sampling of any additional material required as a result of failed confirmatory results outside the delineated area shown on the Drawings.

 - b. Payment for Residential Use Area Sampling and Analysis shall be considered a unit price as indicated in the Bid Schedule under Item 7, which price shall be full compensation for all labor, equipment, materials, laboratory analysis, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

- 8. Ore Pad Removal and Stockpiling
 - c. Measurement for Ore Pad Removal and Stockpiling shall be made at the unit measure indicated on the Bid Schedule to include excavation of soils at the Ore Pad identified on the drawings. In addition, all on-site hauling, placement, demarcation layer, and compaction of contaminated soils referenced above is included in this item for placement at the former Operations Area Interim Stockpile.

- d. Payment for Ore Pad Removal and Stockpiling shall be considered a unit price item as indicated in the Bid Schedule under Item 8, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

9. Common Borrow

- a. Measurement for Imported Common Borrow shall be made at the unit measure indicated on the Bid Schedule to include filling with imported material in accordance with Contract Documents for backfill at the Residential Use Area.
- b. Payment for Common Borrow shall be considered a unit price item as indicated in the Bid Schedule under Item 9, which price shall be full compensation for all labor, equipment, material, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

10. Interim Stockpiles Cover Soil (stink cove sediment)

- a. Measurement for Interim Stockpile Cover as cover material shall be made at the unit measure indicated on the Bid Schedule to include excavating, dewatering, hauling, and placing stink cove sediment material at the Operations Area Interim Stockpile and Tailings Impoundment Area.
- b. Payment for Interim Stockpile Cover shall be considered a unit price item as indicated in the Bid Schedule under Item 10, which price shall be full compensation for all labor, equipment, material, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

11. 16 oz Non-Woven Geotextile

- a. Measurement for Non-Woven Geotextile shall be made at the unit measure indicated on the Bid Schedule to include providing installed materials as measured by the Resident where installed, and accepted in accordance with the Contract Documents.
- b. Payment for Non-Woven Geotextile shall be considered a unit price item as indicated in the Bid Schedule under Item 11, which price shall be full compensation for all labor, equipment, material, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

12. 60 mil HDPE Geomembrane

- a. Measurement for 60 mil HDPE Geomembrane shall be made at the unit measure indicated on the Bid Schedule to include providing installed materials as measured by the Resident where installed, and accepted in accordance with the Contract Documents.
- b. Payment for 60 mil HDPE Geomembrane shall be considered a unit price item as indicated in the Bid Schedule under Item 12, which price shall be full compensation for all labor, equipment, material, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

13. Double Sided Geocomposite

- a. Measurement for Double Sided Geocomposite shall be made at the unit measure indicated on the Bid Schedule to include providing installed materials as measured by the Resident where installed, and accepted in accordance with the Contract Documents.
- b. Payment for Double Sided Geocomposite shall be considered a unit price item as indicated in the Bid Schedule under Item 13, which price shall be full compensation for all labor, equipment, material, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

14. Aggregate Base

- a. Measurement for Aggregate Base shall be made at the unit measure indicated on the Bid Schedule to include material suitable for road construction consisting of clean screened or crushed gravel of hard durable particles meeting the requirement set forth in the project manual and shall be free of trash, ice, snow, tree stumps, roots and excessive organic and deleterious materials.
- b. Payment for Aggregate Base shall be considered a unit price item as indicated in the Bid Schedule under Item 14, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

15. Aggregate Subbase

- a. Measurement for Aggregate Subbase shall be made at the unit measure indicated on the Bid Schedule to include material suitable for road construction consisting of clean screened or crushed gravel of hard durable particles meeting the requirement set forth in the project manual and shall be

free of trash, ice, snow, tree stumps, roots and excessive organic and deleterious materials.

- b. Payment for Aggregate Subbase shall be considered a unit price item as indicated in the Bid Schedule under Item 15, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

16. Top Soil

- a. Measurement for Top Soil shall be made by the unit measure indicated on the Bid Schedule to provide imported top soil in accordance with the Contract Documents for the area shown for coverage by top soil.
- b. Payment for Top Soil shall be considered a unit price item as indicated in the Bid Schedule under Item 16, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

17. Restoration

- a. Measurement for Restoration shall be made at the unit measure indicated on the Bid Schedule to include providing specified vegetation, including seeding, in areas shown on drawings.
- b. Payment for Restoration shall be considered a unit price item as indicated in the Bid Schedule under Item 17, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

18. Boat Ramp and Rip Rap

- a. The Boat Ramp and Rip Rap shall be measured and paid for as a unit of work which will be based on a negotiated and agreed upon price between the Owner and the Contractor which will be based on a fixed scope of work once it is thoroughly identified. An allowance has been provided for this work task.

19a. Wastewater Treatment and Disposal – Fassnacht – Tax Map 9 Lot 29

- a. Measurement for Wastewater Treatment and Disposal – Fassnacht -Tax Map 9 Lot 28 shall be made at the lump sum price as indicated on the Bid Schedule under Item 19a, installed and accepted by the Resident in accordance with the Plans and Specifications

- b. Payment for Wastewater Treatment and Disposal – Fassnacht-Tax Map 9 Lot 28 shall be considered a lump sum price as indicated in the Bid Schedule under Item 19a, which price shall be full compensation for all labor, equipment, materials, to successfully remove and/or abandon the existing septic tank and overboard discharge system and install a three compartment concrete tank, secondary treatment unit, building sewer, three foot diameter pump tank, pump, alarm system, electrical power, fittings, force main, distribution box, concrete chambers, crushed stone, piping, filter fabric, insulation, backfill, compaction, loam, seed, mulch and all other incidentals required to satisfactorily complete the work. Blasting and rock removal required for installation is also included in this item.

19b. Wastewater Treatment and Disposal – Sandecki and Betts -Tax Map 9 Lot 28

- a. Measurement for Wastewater Treatment and Disposal – Sandecki and Betts - Tax Map 9 Lot 29 shall be made at the lump sum price as indicated on the Bid Schedule under Item 19b, installed and accepted by the Resident in accordance with the Plans and Specifications
- b. Payment for Wastewater Treatment and Disposal – Sandecki and Betts -Tax Map 9 Lot 29 shall be considered a lump sum price as indicated in the Bid Schedule under Item 19b, which price shall be full compensation for all labor, equipment, materials, to successfully remove and/or abandon the existing septic tanks, pump station, above ground force mains, gravity sewer lines, electrical power lines and install a 750 gallon settling tank, 1,000 gallon lowboy septic tank, building sewer, a three compartment concrete tank, secondary treatment unit, 3 foot diameter pump tank, pump, alarm system, electrical power, fittings, force main, distribution box, concrete chambers, crushed stone, piping, filter fabric, insulation, backfill, compaction, loam, seed, mulch and all other incidentals required to satisfactorily complete the work. Blasting and rock removal required for installation is also included in this item.

19c. Wastewater Treatment and Disposal -Peters -Tax Map 9 Lot 31

- a. Measurement for Onsite Wastewater Treatment and Disposal -Peters -Tax Map 9 Lot 31 shall be made at the lump sum price as indicated on the Bid Schedule under Item 19c, installed and accepted by the Resident in accordance with the Plans and Specifications
- b. Payment for Onsite Wastewater Treatment and Disposal -Peters -Tax Map 9 Lot 31 shall be considered a lump sum price as indicated in the Bid Schedule under Item 19c, which price shall be full compensation for all labor, equipment, materials, to successfully remove the existing septic tank and install a 1,000 gallon septic tank, building sewer, three foot diameter pump tank, pump, alarm system, electrical power, fittings, force main, distribution box, concrete chambers, crushed stone, piping, filter fabric, insulation, backfill, compaction, loam, seed, mulch and all other incidentals required to

satisfactorily complete the work. Blasting and rock removal required for installation is also included in this item.

19d. Wastewater Treatment and Disposal System- Gray -Tax Map 9 Lot 32

- a. Measurement for Wastewater Treatment and Disposal - Gray -Tax Map 9 Lot 32 shall be made at the lump sum price as indicated on the Bid Schedule under Item 19d, installed and accepted by the Resident in accordance with the Plans and Specifications
- b. Payment for Wastewater Treatment and Disposal - Gray -Tax Map 9 Lot 32 shall be considered a lump sum price as indicated in the Bid Schedule under Item 19d, which price shall be full compensation for all labor, equipment, materials, to successfully remove the existing septic tanks and overboard discharge system and install a 1,000 gallon septic tank, three foot diameter pump tank, pump, alarm system, electrical power, fittings, force main, distribution box, concrete chambers, crushed stone, piping, filter fabric, insulation, backfill, compaction, loam, seed, mulch and all other incidentals required to satisfactorily complete the work. Blasting and rock removal required for installation is also included in this item.

20. PCB \geq 50 ppm Excavation

- a. Measurement for PCB Excavation \geq 50 ppm shall be made at the unit measure indicated on the Bid Schedule under Item 20 to include excavation and vacuuming of all areas shown on the drawings in the Mine Operations Area exceeding 50 ppm.
- b. Payment for PCB Excavation \geq 50 ppm shall be considered a unit price item as indicated in the Bid Schedule under Item 20, which price shall be full compensation for all labor, equipment, materials, stockpiling, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

21. PCB \geq 50 ppm Disposal

- a. Measurement for PCB Disposal \geq 50 ppm shall be made at the unit measure indicated on the Bid Schedule under Item 21 to include Transportation and disposal of all PCB contaminated material equal to or exceeding 50 ppm.
- b. Payment for PCB Disposal \geq 50 ppm shall be considered a unit price item as indicated in the Bid Schedule under Item 21, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

22. PCB \leq 50 ppm Excavation

- a. Measurement for PCB Excavation \leq 50 ppm shall be made at the unit measure indicated on the Bid Schedule under Item 22 to include excavation and vacuuming of all PCB contaminated areas shown on the drawings in the Mine Operations Area exceeding or equal to 50 ppm.
- b. Payment for PCB Excavation \leq 50 ppm shall be considered a unit price item as indicated in the Bid Schedule under Item 22, which price shall be full compensation for all labor, equipment, materials, stockpiling, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

23. PCB \leq 50 ppm Disposal

- a. Measurement for PCB Disposal \leq 50 ppm shall be made at the unit measure indicated on the Bid Schedule to include Transportation and disposal of all PCB contaminated material equal to or exceeding 50 ppm.
- b. Payment for PCB Disposal \leq 50 ppm shall be considered a unit price item as indicated in the Bid Schedule under Item 23, which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

24. PCB Area Sampling and Analysis

- a. Measurement for PCB Area Sampling and Analysis shall be made at the unit measure indicated on the Bid Schedule to include field sampling and laboratory analysis of soils/material for confirmatory purposes and re-sampling of any additional material required as a result of failed confirmatory results outside the delineated area shown on the Drawings.
- b. Payment for PB Area Sampling and Analysis shall be considered a unit price as indicated in the Bid Schedule under Item 24, which price shall be full compensation for all labor, equipment, materials, laboratory analysis, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

25. Demolition

- a. Measurement for Demolition shall be made at the lump sum measure indicated on the Bid Schedule to include removal and disposal on-site of concrete foundations and slabs remaining in the former mine operations area, cutting of reinforcement steel, and testing of concrete for PCB

contamination. Contingent upon analytical results a cost for off-site will be determined between Contractor and Resident. This item also includes removal of the fence for salvaging.

- b. Payment for Demolition shall be considered a lump sum price item as indicated in the Bid Schedule under Item 25, which price shall be full compensation for all labor, equipment, materials, on-site disposal, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual. Contingent upon analytical results a cost for off-site will be determined between Contractor and Resident

26. Remedial Action Report

- a. Remedial Action Report for the Mine Operations Area and Residential Use Areas shall be made at the lump sum measure indicated on the Bid Schedule to include documentation of all remediation activities in accordance with the Contract Documents.
- b. Payment for Remedial Action Report for Mine Operations and Residential Use Areas shall be considered a lump sum price as indicated in the Bid Schedule under Item 26 which price shall be full compensation for all labor, equipment, materials, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents, and specified in the Project Manual.

27. Rock Removal

- a. Measurement for Rock Removal shall be made by the cubic yard in place prior to disturbance as required for construction of the onsite subsurface wastewater disposal systems and all associated utility construction, and the boat ramp installation.
- b. Payment for Rock Removal will be at the contract unit price in the Bid Schedule under Item No. 27, which price shall be full compensation for all labor, equipment, blasting, material, and other incidentals required to complete the work including removal and disposal of waste from the site. Pay width and depth for open rock removal shall be determined prior to disturbance. The pay width for trench rock removal shall be 4' wide and the depth to 6" below pipes, and structures shall be diameter of structure plus 2' and the depth to 8" below structure. Costs associated with over blasting, removal beyond pre-determined volume, or fill requirement to replace over excavation will be considered incidental to the pay item and will be the responsibility of the Contractor to correct.



ALTERNATIVE A – OLD MINE ROAD PAVING

Measurement and payment for Alternative A items shown on the Bid Schedule will be made in the manner presented below for each Bid Item.

A1. 2" 19 mm HMA

- a. Measurement for 2" 19 mm HMA shall be made at the unit measure indicated on the Bid Schedule to include bituminous pavement used in accordance with Contract Documents for the areas shown on the drawings.
- b. Payment for 2" 19 mm HMA shall be considered a unit price item as indicated in the Bid Schedule under item A1, which price shall be full compensation for all labor, equipment, materials, compaction, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

A2. 1½" 12.5 mm HMA

- a. Measurement for 1 ½" 12.5 mm HMA shall be made at the unit measure indicated on the Bid Schedule to include bituminous pavement used in accordance with Contract Documents for the areas shown on the drawings.
- b. Payment for 1 ½" 12.5 mm HMA shall be considered a unit price item as indicated in the Bid Schedule under Item A2, price shall be full compensation for all labor, equipment, materials, compaction, and all other incidentals required to satisfactorily complete the work, as accepted by the Resident, in accordance with the Contract Documents and specified in the Project Manual.

END OF SECTION

SECTION 31 2316.26

ROCK REMOVAL

PART - GENERAL

1.01 SECTION INCLUDES

- A. Removal of rock uncovered during excavation.
- B. Explosives to assist rock removal.
- C. Work at Residential Use Areas for installation of subsurface wastewater systems and construction of the boat ramp.

1.02 RELATED SECTIONS

- A. Section 31 0000 - Earthwork.
- B. Section 31 2200 - Grading.
- C. Section 31 2316 - Excavation.
- D. Section 33 3111 - Piping.
- E. Section 33 3600 – Septic Tanks and Secondary Pretreatment Units.

1.03 REFERENCES

- A. NFPA 495 - Code for Explosive Materials.
- B. MDOT Standard Specifications - Highway and Bridges, current revision.

1.04 DEFINITIONS

- A. Rock is defined as any stone, boulder, or pieces of concrete or masonry, two cubic yards or more in volume, and any hard natural material or rock ledge that will withstand removal by the usual mechanical excavation methods such as, power shovels or toothed bulldozer blades, and such that normally requires blasting or continuous drilling, wedging, sledging, or barring for removal. No soft or disintegrated rock which can be removed with a hand pick or power operated excavator shovel; no loose, shaken, or previously blasted rock or broken stone in rock fillings or elsewhere; and no rock exterior to the maximum limits of measurements allowed, which may fall into the excavation, will be measured or allowed. The Resident shall be sole judge as to whether the material encountered shall be classified as rock in accordance with the above description.

1.05 QUALIFICATIONS

- A. Seismic Survey Firm: Company specializing in seismic surveys with five years documented experience.
- B. Explosives Firm: Company specializing in explosives for disintegration of rock, with five years documented experience.

1.06 REGULATORY REQUIREMENTS

- A. Conform to applicable code for explosive disintegration of rock and to NFPA 495 for handling explosive materials.
- B. Obtain permits from authorities having jurisdiction before explosives are brought to site or drilling is started.

1.07 SCHEDULING

- A. Schedule work under the provisions of Section 01 3000.
- B. Schedule Work to avoid disruption to occupied buildings nearby.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Explosives: Type recommended by explosive firm following seismic survey and required by authorities having jurisdiction.
- B. Delay Device: Type recommended by explosive firm.
- C. Blast Mat Materials: Type recommended by explosives firm.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify site conditions and note subsurface irregularities affecting work of this section.
- B. Beginning of work of this Section means acceptance of existing conditions.

3.02 PREPARATION

- A. Identify required lines, levels, contours, and datum.
- B. Conduct survey and document conditions of buildings near locations of rock removal and prior to blasting, photograph existing conditions identifying existing irregularities.

3.03 ROCK REMOVAL - EXPLOSIVE METHOD

- A. If rock is uncovered requiring the explosives method for rock disintegration, notify the Resident and execute as follows.
- B. Advise owners of adjacent buildings or structures in writing, prior to executing seismographic survey. Explain planned blasting and seismic operations.
- C. Obtain a seismic survey prior to rock excavation to determine maximum charges that can be used at different locations in area of excavation without damaging adjacent properties or other work.
- D. Provide seismographic monitoring during progress of blasting operations.
- E. Disintegrate rock and remove from excavation.
- F. Remove rock at excavation bottom to form level bearing.
- G. Remove shaled layers to provide a sound and unshattered base.
- H. In utility trenches, excavate to 6 inches below invert elevation of pipe and 24 inches wider than pipe diameter.
- I. Remove excavated material from site.
- J. Correct unauthorized rock removal in accordance with backfilling and compacting requirements of Section 31 0000.
- K. Perform no blasting without informing Resident, governing authorities, and other concerned parties. Conform to all local, State, and Federal regulations concerning blasting and pertinent provisions of the "*Manual of Accident Contractors of America, Inc.*", of the *Construction Safety Rules and Regulations*, as adopted by the State Board of Construction Safety, Augusta, Maine, and Maine Department of Transportation "Standard Specifications" Section 107.12, Use of Explosives.
- L. Blast only with such quantities and strength of explosives and in such manner as will break the rock approximately to the intended lines and grades and yet will leave the rock not to be excavated in an unshattered condition. Avoid excessive cracking of the rock upon or against which any structure will be built and to prevent injury to existing pipes or other structures and property above or below ground. Cover rock where necessary.
- M. Blast no closer than 20 feet from completed pipes, manholes, or other structure. Any damages to the work resulting from blasting shall be repaired at the Contractor's expense.
- N. The Contractor shall maintain and submit (if requested) to the Resident accurate record of each blast. Show the general location of the blast, the depth and number of drill holes, the kind and quantity of explosive used, and other data required for a complete



record.

3.04 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed under provisions of Section 01 4000.
- B. Provide for visual inspection of foundation bearing surfaces and cavities formed by removed rock.

END OF SECTION

MANDATORY PRE BID MEETING SIGN-IN
Operable Unit 1 Remediation, Callahan Mine Superfund Site, Brooksville, Maine
December 10, 2010 @ 10:00 AM

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