

2. AMENDMENT/MODIFICATION NO. R0004	3. EFFECTIVE DATE 09/16/03	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY US ARMY ENGINEER DISTRICT, AK CEPOA-CT-CM (DACA85) PO BOX 6898 ANCHORAGE, AK 99506-0898 TAMELA PERRY (907)753-5579	CODE	J4P0000	7. ADMINISTERED BY (If other than Item 6) CODE US ARMY ENGINEER DISTRICT, AK CEPOA-CT-CM PO BOX 6898 ELMENDORF AFB, ALASKA 99506-6898	DACA85
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	9A. AMENDMENT OF SOLICITATION NO. DACA85-03-B-0004
	X	9B. DATED (SEE ITEM 11) 08/06/03
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE 089C4		FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 0 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting and Appropriation Data (If required)

PROJECT TITLE AND LOCATION: Platoon Battle Course, Yukon Training Area, Ft Wainwright, Alaska

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- (X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc). SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

BID OPENING DATE IS 22 SEP 2003, at 2:00 pm, local time, at the US Army Corps of Engineers, 2204 Third St, Elmendorf AFB, Alaska.

NOTICE TO OFFERORS: PLEASE MARK OUTSIDE OF ENVELOPE IN WHICH BID IS SUBMITTED TO SHOW AMENDMENTS RECEIVED. YOU ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON THE REVERSE SIDE OF STANDARD FORM 1442.

IMPORTANT NOTE: Keep in mind that the base is still under tight security measures and access to non-DOD personnel is limited or restricted and requires extra time to process through the Boniface Gate

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF SIGNER (Type or print)		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

If the offer is submitted by a corporation, partnership, Joint Venture or an LLC, the applicable form listed must be completed. In the alternative, other evidence must be submitted to substantiate the authority of the person signing the offer. If a corporation, the same officer shall not execute both the offer and the certificate.

LLC

I, _____, certify that I am the _____ Secretary of the LLC named as Offeror/Contractor herein; that _____ who signed this offer/contract on behalf of the Offeror/Contractor was then _____ of said LLC; that said offer/contract was duly signed for and on behalf of said LLC by authority of its governing body, and is within the scope of its corporate powers.

(Secretary) (CORPORATE SEAL)

CORPORATE CERTIFICATE

I, _____, certify that I am the _____ Secretary of the corporation named as Offeror/Contractor herein; that _____ who signed this offer/contract on behalf of the Offeror/Contractor was then _____ of said corporation; that said offer/contract was duly signed for and on behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

(Secretary) (CORPORATE SEAL)

AUTHORITY TO BIND PARTNERSHIP

This is to certify that the names and signatures of all partners are listed below and that the person signing the offer had authority to actually bind the partnership pursuant to its partnership agreement. Each of the partners individually has full authority to enter into and execute contractual instruments, on behalf of said partnership, with the United States of America, except as follows: (State "none" or describe limitations, if any.)

This authority shall remain in full force and effect until such time as the revocation of authority by any cause whatsoever has been furnished in writing to, and acknowledged by, the Contracting Officer.

(Type or Print Name) (Signature)

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JOINT VENTURE

I, _____, certify that I am the Secretary of the Corporation named as Offeror/Contractor Herein, that who signed this offer/contract on behalf of the Offeror/Contractor was then _____ of said corporation by authority of its governing body and is within the scope of its corporate powers. IN WITNESS WHEREOF, I have hereunto affixed my hand and the seal of said corporation this _____ day of

AFFIX CORPORATE SEAL

(Secretary)

JOINT VENTURE

I, _____, certify that I am the Secretary of the corporation names as Offeror/Contractor herein, that who signed this offer/contract on behalf of the Offeror/Contractor was then _____ of said corporation; that said offer/contract was duly signed for and on behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

IN WITNESS WHEREOF, I have hereunto affixed my hand and the seal of said corporation this _____ day of _____.

AFFIX CORPORATE SEAL

(Secretary)

PRE-AWARD QUESTIONNAIRE

Following offer opening, the apparent low offeror will be contacted and requested to submit the data referenced below. This will expedite our pre-award process. Prior to awarding any contract, it is required for this office to have on record specific information concerning the apparent low, responsible, responsive offeror. Accordingly it is requested that you complete the following form and return to this office, ATTN: Contracting Division, CEPOA-CT-SP.

Name of Contractor _____ X Proper Block
 Business Address _____ Corporation
 City/State/Zip _____ Partnership
 Telephone No. _____ Individual
 Operating Office Address, (This Area): _____ J/V

_____ LLC
 Name of Contractor _____
 Business Address _____ inc. in State of:
 City/State/Zip _____
 Telephone No. _____
 _____ Year inc.

LIST OF CORPORATION OFFICERS/PARTNERS BY NAME AND TITLE

_____ Small Business
 _____ Large Business
 _____ Minority Business

YEARS EXPERIENCE in the field of proposed work (_____). Also indicate similarity between work currently being produced and work required under subject invitation:

Financial Institution Ratings. Is your firm listed in:

- a. Dun & Bradstreet: _____ No _____ Yes: If yes, what is the rating?
- b. Thomas Register: _____ No _____ Yes: If yes, what is the rating?

~~AM#4... CERTIFIED CURRENT BALANCE SHEET and latest PROFIT AND LOSS STATEMENT~~
Most recent AUDITED FINANCIAL STATEMENTS and most current CERTIFIED BALANCE SHEET and latest PROFIT AND LOSS STATEMENT ...AM#4 signed by an officer of the company. The name of your banking firm and telephone number and the name of

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the individual to contact for a line-of-credit reference. The last financial statements will be acceptable if they are less than 6 months old.

List all pending lawsuits or unsatisfied judgments against you; the nature of same and Court where filed or adjudicated. Lawsuits or judgments where full payment will be made, or are covered by your insurance are not to be included.

List all your contract claims pending; state nature and amount of each claim and approximate date filed.

Name(s) of Bonding Company(ies)_____

Business Address(es)_____

Your bonding capacity as established by your surety \$ _____

PLEASE ATTACH with Pre-Award Questionnaire a list of tools, equipment and facilities, with year, date and value which will be used for this project.

By my signature hereon, I certify that the offer price of \$
on
subject project has been reviewed and is without error.

Signature_____

Title_____

Date_____

179. Question: In looking at the typical building cuts shown on page A-14, this is not typical pre-engineered type of construction. We would have to add a large amount of secondary steel to accommodate the installation of the shown substrates. This obviously adds extra cost to the building not only in materials but also labor. A typical pre-eng building would consist of primary framing, secondary girts and purlins to support the wall and roof sheeting. Both the wall and roof sheeting would attach directly to secondary girts and purlins. We can easily insulate the walls up to R-30 and the roof to R-42 with the “Simple Saver” style of insulating. To achieve the fireproofing with GWB, simply add hat channel framing to the interior of the girts and purlins, and install the required layers of GWB.

Detail C on A-14 for the typical roof and wall construction, needs to be clarified.

a. Start with the roof: There are 3 layers of various roofing material involved. Plywood, metal pan decking, and finally the SSR system. Only the SSR is needed to still give the “20 year weather tightness” warranty. All of the roof purlins are over 24” from center to center. Do we add additional purlins for plywood installation? How then, does the metal pan decking fasten down? Normally, this would be puddle welded. Metal pan decking shows being installed perpendicular to the purlins with the SSR attached to the pan deck. This won’t work as many of the clips will probably fall into “lows” of the metal pan decking.

b. In addition, rigid insulation installed into the purlin cavities will be impossible to do without leaving air gaps in the sheeting, thus causing condensation leaks. A R-38-42 Simple Saver Insulation system will be much better than the rigid board insulation.

c. The wall system is similar: Metal wall sheeting over plywood. Again, do we add extra girts to accommodate the plywood installation? Does metal wall sheeting attach to the plywood, or our girt system? Different types and lengths of screws would be used. Please clarify. Again, the 2’ rigid insulation would be difficult to install without air spaces and gaps. What is the purpose of the “solid wood thermal break” shown on detail “C”?

d. Also, why are Ridge Ventilators being installed in what appears to be a well-insulated roof? There are operable windows that can supply outside air.

e. A standard wall system would consist of the following: Metal wall sheeting attached to our girt system over a thermal break tape, the desired amount of wall insulation installed between the girts. (same as a friction fit system in house construction). 20 gauge metal Hat Channels @ 16” O.C., as desired layers of sheetrock.

f. A standard roof system would consist of the following: The SSR sheeting attached to the roof purlins, desired insulation thickness installed between and over the purlins, 20 gauge Hat Channel @ 16” O.C. and the required layers of sheetrock.

Answer: The buildings have been designed with the intent of addressing the user's requirements and include arctic features. If during the performance of the work the successful contractor finds more economic or efficient methods for performing the work he may pursue those ideas under the contract clause, 52.248-3, VALUE ENGINEERING – CONSTRUCTION.

180. Question: Drawing A14, section C. shows Polyisocyanurate insulation below the plywood roof deck in the purlin cavity. The method described in Spec. 07416a 2.7.1, 3.2, & 3.2.1 indicates all insulation is applied above the plywood roof deck. Please clarify.

Answer: Refer to Amendment 3, Question 93.

181. Question: Pursuant to the loading criteria set forth in the specs and drawings, the roof purlins are spaced at 2'-9" o.c. and the wall purlins are spaced at 4' o.c. Does the designer intend to have the contractor supply and install intermediate framing to support the items shown on drawing A14. i.e. roof and wall plywood, polyisocyanurate insulation, and gypsum wallboard.

Answer: Refer to Amendment 3, Questions 134 and 135.

182. Question: Drawing A14, section C. Please provide a specification for the Membrane Underlayment.

Answer: Asphalt saturated felt (30 pound) roofing felt.

183. Question: 1 & 2 man stationary infantry target emplacements shown on drawing C121 depicts a thickened edge slab @ the front portion of the emplacement. 3 man and 7 man target emplacements shown on C122 and C123 have eliminated the thickened edge slab. Can the 1 & 2 man emplacements be constructed as shown on C122 & C123?

Answer: Yes

184. Question: How does the work shown on drawings E09, E10, E11, and E12 relate and pertain to Pay Items 1, 2, and/or 7? The bid schedule has the fieldwork spread up into 2 distinctive pay items. One being the Platoon Battle Course (IPBC), Pay Item #0001, and the other Multi-Purpose Training Range (MPTR), Pay Item #0002. Both of these areas are defined on sheet LV02 of which shows the IPBC area being north of Manchu Road whereas the MPTR area is located south of Manchu Road. Electrical work, devices and items within the IPBC are dependent on work, devices and items being installed within the MPTR area.

Answer: Refer to revised bid schedule provided under Amendment 3.

185. Question: Are fiber optic cable terminations at the TFP, SAT, SIT, or MAT panels part of the scope for this project?

Answer: Yes

186. Question: Is there a specification for the 6-ST Fiber Optic Cable, direct buried from the ROC (range operations center) to the field?

Answer: **The optical fiber cable for direct buried applications shall be Corning Cable Systems' ALTOS® Armored loose tube or approved equal. The part number for ranges over 300 meters is 006RW5-14101A20. This is for a 6-strand single-mode cable. This particular cable specification can be found on page 1.6 of the LANscape® Solutions Fiber Optic Products Catalog 8th Edition.**

187. Question: Under what Pay Item is the Power Line supposed to be assigned?

Answer: **Pay Item No. 0008. Refer to revised bid schedule provided under Amendment 3.**

188. Question: As per the Wetlands Permit, it states that there are a total of 73 power poles to be installed; there are actually more than 73 poles to be installed? Do you see this as potential problem?

Answer: **No.**

189. Question: Sheet A-14 details C & D does not conform at all to normal pre-eng. type of construction.

a. Roof problems:

The 1/2" plywood sheathing will not span the distances that the purlins are typically spaced at. Do we add extra purlins? Expensive, since they are not needed for the SSR Roofing system. It will span the distances set up by the computer. Also, what is the purpose of the Metal Pan Decking? The drawings show it installing the same direction as the SSR and that will not work. SSR clips will end up in lows of the panels-this don't work. Also, the metal pan decking is normally puddle weld into place. How do we attach it?

Why 3 layers of roofing? The SSR will work and we can still provide the 20 Year Weathertightness Warranty. Please clarify.

Also, the insulation shown on the drawings will be impossible to install without having some voids etc. between the purlins. These voids will cause condensation problems and leaks. Suggest using a Simple Saver Insulation System, which can provide up to R-42 insulation capacity.

b. Wall problems:

Much of the same as the roof. CDX plywood will not span the girts without adding more girts for adequate support. CDX is not required by the bldg mfg for and shear value. How do we handle the CDX sheathing? Similar problem with trying to install the rigid

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insulation in the walls as in the roof. Voids will cause condensation leaks. Once again, suggest using the Simple Saver Insulation System. Can go up to R-30 in the walls.

Sheetrock: A similar problem with being able to span the distance of the girt and purlin spacing exists. Suggest using 20 gauge or even 16 gauge hat channels to span the secondary steel spacing and apply the sheetrock to the hat channels.

Roof Ventilators: Since the bldgs have operable windows for ventilation, what is their purpose? Once again, they will cause condensation problems. Also, drawing clearly shows insulation and sheetrock directly below the roof vents. How are they supposed to function when they are blocked off?

You will also have to have a Carpentry crew standing by to install the plywood sheeting. A steel erection crew will not do carpentry. This will also add again to the cost.

The buildings as designed will be very expensive to build and will force the Contractor to use designs that will not work in Alaska conditions. There will be condensation problems that are out of your control-yet held responsible for.

Answer: Refer to Question 179 response.

190. Question: Where do the MAT storage buildings go & how many are there?

Answer: Refer to bid drawings that show one MAT storage building per MAT (Moving Armor Target).

191. Question: What drawing shows the orientation of the Mat storage building & associated retaining walls?

Answer: Refer to bid drawings A12, S11, S12, & C118

192. Question: What drawings show the extent of the wood retaining walls for the Moving Armor Targets, and are the heights & details typical?

Answer: Refer to bid drawings S07, C118

193. Question: Volume 2 of the Geotechnical Report is not usable. Several pages will not print correctly. Will Volume 2 be replaced?

Answer: No, it will not be replaced. Please note that Volume 2 contains several pages with large graphics, it may be possible to print these pages one at a time.

194. Question: What Bid Item does the Power Line Extension belong in?

Answer: Refer to question 187.

195. Question: When will the last round of questions be answered?

Answer: **This amendment includes the last round of questions to be answered for this solicitation.**

196. Question: Spec. Section 09511 par. 2.1.1 calls for NRC of .75, .60 and .50, a CAC of 40 and Pattern A. Pattern A is regularly spaced large holes per ASTM. This pattern is no longer made. There is one tile that has the high NRC and the high CAC and that is USG frost but the pattern is not pattern A. Is this tile acceptable?

Answer: **Yes**

197. Question: Spec. Section 09840A acoustical wall treatment. Sheet A16 room 108 the walls show Sound Soak wall covering. Sound Soak is a wall panel made by Armstrong. The specs. say this is a wall fabric bonded directly to the wall face. Please clarify.

Answer: **The panels can be directly bonded to the wall face without furring channels. The words "SOUND SOAK" on the contract drawings shall be revised to "ACOUSTICAL SOUND ABSORBING."**

198. Question: What is the maximum/minimum size for the Target Fiber Panels?

Answer: **Minimum of 318mm height, 267 mm width, and 159 mm depth. Maximum-50 mm clearance below top of wall.**

199. Question: Is there an "Outside Plan" Specification to explain requirements for all of the comm. equipment and cable (quite possibly 16711 Or 16768)?

Answer: **A separate specification does not exist.**

200. Question: The construction drawings page C01 shows typical road sections for the Manchu Lake Trail road construction.

- a. Is the road base as shown for the Manchu Lake Trail designed to withstand construction vehicle traffic with loads of approximately 45 tons?

Answer: **The design variables are indicated in paragraph 8.2.1 of Volume 1 of the Geotechnical Investigation. The contractor should anticipate that using the constructed roadway per the typical road sections could cause degradation to the roads. Accordingly, the contractor would be required to correct any degradation caused by traffic prior to acceptance of work by the government.**

- b. Is the Gov't furnished bridge to be installed over Moose Creek adequate to withstand construction vehicle traffic with loads of approximately 45 tons?

Answer: Refer to response to Question 103.

- c. Is the bridge on Transmitter Road going to be replaced during the timeframe of this Platoon Battle Course project? If so, when and will it be part of this project or a separate project? Usage of Transmitter Road is critical to the execution of this project.

Answer: Refer to Question 104. The bridge will be replaced under a separate contract.

- d. What are the load limits for the existing bridges on Manchu Road and Transmitter Road?

Answer: Refer to Questions 104. The sign at the Manchu Road Bridge indicates that it has a 9-ton load limit.

201. Question: The solicitation states that an Observation Tower and a General Instruction/Warm-up Facility is to be constructed as part of the project, but neither an Observation Tower nor a General Instruction/Warm-up Facility are shown on the drawings. What are the requirements for the Observation Tower and the General Instruction/Warm-up Facility?

Answer: They are not within the scope of work.

202. Question: The solicitation Project Description calls for the work to be completed within 320 days after receipt of NTP. The specifications section 00800, SCR-1, Commencement, Prosecution and Completion of Work states the work is to be completed within 730 days after receipt of NTP. We do not feel this project can be completed economically if the time frame is less than 730 days. Please clarify the project time length.

Answer: Specification Section 00800, SCR-1, Commencement, Prosecution, and Completion of Work give the correct completion information of 730 days after receipt of NTP. This information was also included in Amendment 0002 to this solicitation.

203. Question: Sheet LV02, note 8, states Cather's Lake will be the source for fill material. During the pre-bid conference it was noticed that only parts of the lake are accessible for a borrow pit and that another source of material will be located. Where is the new borrow pit area?

Answer: Refer to Amendment 2, Question 29 for development requirements of the Cather's Lake Borrow Pit.

204. Question: The legend on Sheets C34-C45 calls for the B# targets to be Stationary Army Targets w/Machine Gun Bunker Facades. Sheet C117 shows the Stationary Armor Target details and sheet C119 shows the Machine Gun Bunker details. However, none of these details indicates a Machine Gun Bunker Façade. What is the design for the B# targets?

Answer: Refer to Amendment 2, Question 8.

205. Question: Detail 2 on sheet A15 shows the building structural columns to be wrapped with insulation and sheetrock. The plan view on sheet A07 indicates that some columns get wrapped but that some do not. The column that shows the callout to the details is indicated as unwrapped, but the detail shows wrapping. Please clarify which columns are to be wrapped and which are to be left unwrapped.

Answer: Columns in occupied areas (offices, admin, training) get wrapped. Columns in Maintenance and storage areas do not get wrapped.

206. Question: Sheets A01, A03, A04, A06, A07, and A09 show plan view and elevations of entry canopies at several entrances. However, no details are shown how to finish these entrances. What materials and details are required for these entry canopies?

Answer: Refer to Amendment 3, Question 138.

207. Question: The room finish schedule on Sheet A18 does not show the finishes for Range Control and General Maintenance Facility Vestibule room 109. What finishes are required for the Range Control and General Maintenance Facility Vestibule room 109?

Answer: Use same finishes as room 101 in the Large After Action Review Building.

a. Also, on this room finish schedule, sheet A18, for room 102, the schedule calls fro a ceiling at the 9' height. However, Sheet A08 indicates that the ceiling in room 102 should be sloped along the underside of the structure. What is the finish detail for the ceiling in room 102?

Answer: The ceiling in room 102 of the Gwen Main Facility is sloped gypsum board.

b. Also on this room finish schedule, sheet A18, room 103 through 107, the schedule calls for a painted GWB ceiling. However, Sheet A08 indicates that the ceilings in rooms 103 through 107 should be an acoustical ceiling. If a painted GWB ceiling is required, then a ceiling framing plan is required in order to support the weight of the GWB. What type of ceiling should be provided and installed in these rooms?

Answer: Refer to Amendment 3, Question 134.

208. Question: Detail G on sheet A14 shows an eating and serving table. Sheet A01 calls for a concrete serving station, but no further description is provided, and no material is specified for the eating tables. What materials and details are to be used in the construction of these tops?

Answer: Refer to Amendment 3, Question 151.

209. Question: Specification Section 5400, Part 2.1b states that the steel stud and track thickness is shown on the drawings. However the drawings do not show any steel stud thickness. What thickness are the steel studs and track supposed to be?

Answer: The steel studs shall be gage 22.

210. Question: In Amendment 2, Volume 2 of the R&M Geotechnical Investigation, Appendix C, why does the Summary of Laboratory Data not include summary data for test holes AP-8566, AP-8616, AP-8617, and AP-8653 through AP-8660.

Answer: AP-8566, AP-8616, and AP-8617 are all holes with shallow bedrock and no testing was performed. The soil classifications shown are estimated. An asterisk beside the sample data indicates estimated soil information. See Section 4.1 Soil Index Properties, page 30 of R&M's report for an explanation of the asterisk's use.

The remaining holes are survey monument holes and no testing was required by the contract. The holes were drilled for installing survey monuments and were not drilled for engineering purposes. As with the other borings, the soil information was estimated.

211. Question: Sheet A07, the Range Control and General Maintenance Facility, the Floor Plan and detail 2 shows the rails for the Target Maintenance/Storage Room to be embedded in the concrete slab. However, Specification Section 5650A, Part 2.3 states that the rails are to be provided and installed by the targetry equipment contractor. Are the rails in the Target Maintenance/Storage Room to be supplied and installed in this contract?

Answer: Yes

212. Question: Sheet A07, between gridlines B&C, and 1&2, an insulated overhead door is called out between the Mech/Elec room and the Target Maintenance/Storage room; however, no details are shown regarding size or location. Please clarify what is required in this location.

Answer: Provide personnel door 90 minute rated, self-closing.

213. Question: Is there any profile grade information and/or excavation/fill quantities associated with the target access trails? Drawing C30 - General Note #8 - stipulates that the trails follow the existing grades per the typical detail on sheet C125. However, the typical detail

on sheet C125 indicates there is some excavation into the bank. How can we determine this excavation quantity if cross-sections or the road profile is not provided?

Answer: The intent of the design is not to have excavation for these Target Access Trails.

214. Question: Specification section 02630a-3.6 calls out for testing the storm drainage system. This seems excessive for Corrugated Metal Pipe (CMP) culverts. Will this be a contract requirement?

Answer: Refer to Amendment 3, Question 126.

215. Question: Amendment #002, 01355a - pg 20, provided an aerial photograph of the Cathers Lake Pit development. It appears that there are distances provided for both Locations A & B from the edge of existing water to the edge of the pit/locations (103.763007, 58.515609, etc.). These distances do not match the scale provided on the aerial photograph. How are these numbers derived?

Answer: The scale bar is incorrect. Use the numerical distances shown on the drawing.

216. Question: Section 02231, clearing and grubbing states that contractor is responsible to remove all trees (clearing) from government property. In the IPBC section, do the trees smaller than 10 cm and the brush that is to be removed at designated distances fall under the Clearing (removal from government property) or grubbing (to be disposed near the project site) spec section?

Answer: In IPBC, the removal of trees is considered as clearing, not grubbing. These trees can be chipped and used for erosion control.

217. Question: Amendment #2, dated 8/6/03 question #15, reference designated disposal area for grubbing. Answer states the designated area will be in the vicinity of the project site. Could a more defined area, location or distance please be provided? The project site is very large and spread out and a defined area/location prior to bid creates equal opportunity for all bidders.

Answer: The grubbing disposal area will be designated within the confines of the project site.

218. Question: Will there be an area within the project site (YTA) where fill material (unclassified fill) will be available for contractor use, such as a hillside, etc? If not, will Cathers Lake be the designated fill material (unclassified fill) location for the project? Will contractors have the opportunity to locate a closer fill area once project is awarded?

Answer: The designated borrow site for classified and unclassified is Cather's Lake.

219. Question: The buildings do not appear to be designed for arctic conditions. Building manufacturers are either not bidding or declining to provide a 20-year warranty. Please review and advise on how to proceed with the Standard Metal buildings, Section 13120 that are not designed for arctic conditions.

Answer: **The buildings have been designed and then reviewed by Alaska District Technical Personnel with the intent of addressing the user's requirements and including arctic features into the plans and specifications. The plans are focused on meeting user requirements and the contractor may need to tailor standard metal building to these requirements. Once contract is awarded, the successful contractor may voluntarily suggest more economic or efficient methods for performing the work in accordance with the contract clause, 52.248-3, VALUE ENGINEERING – CONSTRUCTION.**

220. Question: LLC Certificate Statement - Please verify whether or not this certificate is relevant to a corporation only. LLC's do not necessarily have a "Secretary of the LLC" nor a corporate seal. How should this certificate be completed by an LLC? Our firm, an LLC, does not have a Secretary nor a seal.

Answer: **In the state of Alaska, according to Alaska Statute 10.50.075, LLCs are formed by Articles of Organization, which lists the company's managers authorized to bind the LLC. In the appropriate spaces, please indicate whether the individual is signing as a member or manager or both and instead of a "Corporate Seal" please attach Certificate of Organization which indicates the signatory's authority to bind the LLC.**

221. Question: The government furnished Bailey bridge viewed during the site visit is missing several integral components required for erection and for safety. Will the govt provide the missing components such as pins, panels, curbing, clamps, deck substructure, and proper chess? Will the gov't provide an inventory sheet for a complete Bailey bridge set?

Answer: **The Government will provide any missing hardware to the furnished Bailey bridge along with an inventory sheet. Inventory sheet to be supplied after award.**

222. Question: The existing Bailey bridge decking is not to military specification and therefore may not be appropriate for the load class requirement. Will the government provide treadway and proper placement for Stryker vehicles?

Answer: **Refer to Question 221 response.**

223. Question: Spec Section 02231, page 3, Art 3.3, advises, " where indicated or directed, trees shall be removed from areas outside those designated for clearing". Very few areas are presently, clearly designated, which we hope you will clarify. With this article, quantification of clearing is impossible. Please clarify.

Answer: The clearing requirements are generally covered where the work is described. For MPTR and IPBC Ranges, the clearing is described on drawing C30; see note 10 for IBPC; see note in the drawing itself for MPTR, which states: “extents of tree removal”. Response to Question 232 discusses clearing for power poles. See typical sections A and B on drawing C01 indicating width of area where construction will occur and construction equipment area. See drawings C55 thru C99 for information on north and south Stryker Trails; the contractor should be able to determine the widths to be cleared from cross sections provided.

224. Question: Specifically, please reference sheet C31. The LEGEND shows cross-hatching defining Existing Vegetation; the cross hatching is defined on the plan in several areas, are these areas to be cleared /or cleared and grubbed? Sheet C32 is similar.

Answer: It is to be cleared and grubbed only where required for construction and grading necessary for the indicated facilities.

225. Question: Are the total quantities (not including shrink & swell) for North Stryker Trail included in Sheet C80 Summary Table?

Answer: Yes. The contractor is responsible for confirming quantities.

226. Question: Are the total quantities (not including shrink & swell) for South Stryker Trail included in Sheet C99 Summary Table?

Answer: Yes. The contractor is responsible for confirming quantities.

227. Question: Section 16370A-3.1.3 specifies clearing width for the overhead lines. Underground lines require stumps be removed and grubbing, no width is specified in Section 16375A. Is the intent that the contractor’s underground electrical utility clearing be “as required” to perform the work?

Answer: Yes

228. Question: Section 2231-3.2 states stumps will be cut off flush with the ground surface, stumps need to be removed along the centerline of the trench for electrical utilities to be installed. Please clarify the requirements for clearing with respect to underground electrical utilities.

Answer: Refer to Question 227.

229. Question: The underground electrical utilities parallel Manchu Road along a portion of the project, Section 2231-3.6 & 3.7 address other areas of the project but not Manchu Road. Are there any specific requirements for underground utility clearing along Manchu Road.

Answer: Refer to Question 227.

230. Question: Sheet E35, Detail 23 indicates a general cable section in road/trail shoulder. The detail appears to define a road prism with a 1.5 to 1 slope. Not all roads and trails are to be constructed to the 1.5 to 1 slope. How is the road prism defined when pavement structures are not constructed to the 1.5 to 1 slope. Are trenches required to be in the road/trail prism when running parallel to the road or trail (the detail would require electrical utilities be installed prior to road construction)?

Answer: See typical sections on sheets C01 and C125 for road and trail shoulder slopes. When running parallel to road, the trenches are to be as indicated in detail "General Cable Section in Road/ Trail Section" on drawing E35.

231. Question: Please provide pole height and class for poles 59A, 62A, 62B & 72A.

Answer: 40 feet, Class 3

232. Question: We request clarification and or verification of the following questions.

a. Regarding power line clearing. General Note 1 on sheet E 05, same note on other sheets, identifies that clearing and grubbing for the pole line shall be performed per specification 02231 and that clearing is required for the entire length of the installation. Width of path to be cleared is defined in spec section 16370. Section 02231 generally describes the clearing as cutting off vegetation a original ground surface, is grubbing required anywhere in the pole line? Is it acceptable to grind or chip vegetative matter and leave in the cleared area? Section 16370 does not define the width of the path to be cleared, please advise after your determination.

Answer: For pole installation purposes, grubbing is only necessary where the pole will be installed. It is acceptable to grind or chip and use vegetative matter in cleared area requiring erosion control measures. Use the widths for clearing as specified in paragraph 3.1.3 of section 16370A

b. Sheet C30, General Notes, specifically No.10, identifies removal of trees at the IPBC. Sheet LV02 identifies the IPBC as the north side of Manchu Road. Does the south side, the MPTR site have the same clearing requirements as the IPBC?

Answer: The entire area within the indicated boundary for MPTR is to be cleared.

c. Where are and what are "objective boxes"? We do not find "objective boxes" identified on the civil sheets.

Answer: See C46 for location of objective A box. See C47 for location of objective B box. See C48 for location of objective C box. See C49 for location of objective D box. See C51, C52, C53, and C54 for location of objectives E and F boxes.

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d. Note 10 advises 90% clearing at objective boxes, is there a slab or structure at these locations? We interpret that only 90% of the trees 10 cm in diameter will be removed and the larger than 10 cm remain. Please advise.

Answer: Refer to Question 232c.

e. Is grubbing required at target locations, objective boxes moving targets, etc.?

Answer: No

f. Sheet C30 notes the "extents of MPTR tree removal". We have interpreted this as clearing shall not go beyond these limits, not as the area to be cleared totally, please clarify/verify.

Answer: This note means that all trees are to be cleared inside the designated limits.

g. Clearing limits are not specifically identified in the specifications, on typical details or plan sheets. Typical Section A and B only, on sheet C01, note a 3 meter Construction Equipment Area. Are we to consider this Construction Equipment Area to be typical clearing limits?

Answer: Sheet C30 notes indicate additional requirements for clearing. Also see Question 232f.

h. Please advise of clearing limits of the north and south Stryker trails, the access trails to target areas, and Moving Armor Targets.

Answer: Limits are indicated on sheet C30 and other drawings as identified by the drawing key on C30.

i. Request clarification of grubbing requirements for roads and trails.

Answer: For clarification and intent see page 67 (paragraph 8.2.4) in Volume 1 of Geotechnical Investigation.

j. Where only clearing is to be performed, is it acceptable to chip/grind and spread the chips in the cleared area?

Answer: The intent is to use the chipped material for erosion control. If there is extra material, spreading in the cleared area would be acceptable.

THESE ARE THE FINAL QUESTIONS AND ANSWERS FOR DACA85-03-B-0004 (PLATOON BATTLE COURSE, YTA001).