

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. R0001	3. EFFECTIVE DATE 05/09/03	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY US ARMY ENGINEER DISTRICT, AK CEPOA-CT (DACA85) PO BOX 6898 ELMENDORF AFB, AK 99506-6898 GAIL M WEST (907)753-2551	CODE J4P0000	7. ADMINISTERED BY (If other than Item 6) CODE US ARMY ENGINEER DISTRICT, AK CEPOA-CO-SAO PO BOX 6898 ELMENDORF AFB, ALASKA 99506-6898		DACA85
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(X) 9A. AMENDMENT OF SOLICITATION NO. DACW85-03-B-0001	9B. DATED (SEE ITEM 11) 04/15/03
CODE 089C4 FACILITY CODE			10A. MODIFICATION OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	

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: Harbor Improvement, Wrangell, Anchorage, Alaska

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

<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	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 EXTENDED TO 18 JUN 2003, at 2:00 pm, local time, at US Army Corps of Engineers, 2204 Third St, Elmendorf AFB, Anchorage, 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, base 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 (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NUMBER DACW85-03-B-0001	2. TYPE OF SOLICITATION <input checked="" type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 15 Apr 2003	PAGE OF PAGES
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IMPORTANT - The "offer" section on the reverse must be fully completed by the offeror.

4. CONTRACT NUMBER	5. REQUISITION/PURCHASE REQUEST NUMBER	6. PROJECT NUMBER
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7. ISSUED BY US ARMY ENGINEER DISTRICT, ALASKA CEPOA-CT (DACW85) PO BOX 6898 ELMENDORF AFB, AK 99506-6898	CODE DACA85	8. ADDRESS OFFER TO US Army Engineer District, Alaska 2204 3rd Street Elmendorf AFB, Alaska 99506 Mailing: PO Box 6898 Elmendorf AFB, AK 99506-6898
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9. FOR INFORMATION CALL <table border="1"> <tr> <td>A. NAME GAIL M WEST</td> <td>B. TELEPHONE NUMBER <i>(Include area code) (NO COLLECT CALLS)</i> (907)753-2551</td> </tr> </table>	A. NAME GAIL M WEST	B. TELEPHONE NUMBER <i>(Include area code) (NO COLLECT CALLS)</i> (907)753-2551
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SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS *(Title, identifying number, date):*

NAICS: 237990
 PROJECT TITLE/LOCATION: Harbor Improvements, Wrangell, Alaska
 OPEN TO LARGE AND SMALL BUSINESSES
 DESCRIPTION OF WORK: Construct two rubble mound breakwaters (1,800 lf and 540 lf). Estimated quantities are: 57,700 cy "A" rock (ave wt 3,000 lbs); 66,000 cy "B" rock (225 to 2,250 lbs); 148,000 cy "Core" rock (1 to 225 lbs); and 307,000 cy "Sub-Core" rock (0.5 to 225 lbs). Dredge/excavate/dispose of 82,200 cy of material (base item) and 42,200 cy of material (option item). Construct other miscellaneous items of work. No contractor staging area will be provided at the harbor site. Location of project is Latitude 56 degrees, 28 minutes North and 132 degrees, 23 minutes West in Southeast Alaska.

Point of contact is Gail M West, Contract Specialist, tel 907-753-2551, fax 907-753-2544 or e-mail gail.m.west@usace.army.mil. THIS SOLICITATION UTILIZES ELECTRONIC BID SETS (EBS) AND WILL BE AVAILABLE FOR DOWNLOADING ON OUR WEBSITE AT NO CHARGE -- <https://ebs.poa.usace.army.mil/AdvertisedSolicitations.asp>

11. The Contractor shall begin performance within 10 calendar days and complete it within _____ calendar days after receiving
 award, notice to proceed. This performance period is mandatory, negotiable. (See SCR-1 (also calendar days).)

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i>	12B. CALENDAR DAYS
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	10

13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and 1 copies to perform the work required are due at the place specified in Item 8 by 2:00 PM (hour) local time ~~15 May 2003~~ 18 Jun 2003 (date). *AM#1* If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee is, is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

The Alaska Department of Transportation and Public Facilities (ADOT&PF) has agreed to make the Wrangell Airport quarry available for use on the Heritage Harbor Project. For further information contact:

Greg Patz
Alaska Department of Transportation & Public Facilities
6860 Glacier Highway
Juneau, AK 99801
(907)465-1784
Fax (907)465-2021
E-mail: greg_patz@dot.state.ak.us

**Alaska Department of Transportation & Public Facilities
Southeast Region, Maintenance & Operations
Wrangell Airport Rock Quarry, Heritage Harbor Project**

1. The Alaska Department of Transportation & Public Facilities (ADOT&PF) has agreed to make the Wrangell Airport Rock Quarry available for mining rock to be used on the US Army Corps of Engineers (USACOE) Wrangell Heritage Harbor construction project.
2. ADOT&PF has agreed to allow USACOE, or its contractor, to mine 100,000 cubic yards of rock for this project, without royalty.
3. Rock mined at the airport rock quarry in conjunction with this project may only be used for the Heritage Harbor project. The contractor will use best management practices in mining the rock. Any shot rock that is unusable for the harbor project or in excess of 100,000 cubic yards will remain in the quarry and will be the property of ADOT&PF.
4. The contractor will maintain up to date records of quantities of rock removed and will make such records available to the Airport Manager for inspection.
5. The contractor will coordinate its mining operation with the Wrangell Airport Manager. The contractor will meet the aviation safety requirements outlined in the Wrangell Airport Quarry Blasting and Mining Airport Operational Safety Plan (attached).
6. The contractor is required to develop a Controlled Area Firing Plan acceptable to the Airport Manager, and obtain FAA approval of the plan prior to conducting any blasting on the Wrangell Airport.
7. All blasting operations shall conform to applicable ATF, OSHA, and State of Alaska standards.
8. Blasting will be conducted in a manner that will prevent fly rock from being ejected onto the airport operations areas.
9. Heavy equipment and barge operations that will penetrate FAA controlled air space (Part 77) must meet all FAA requirements. Such heavy equipment and barges will be equipped with radios for communications with the contractor. Heavy equipment and barge operations may be suspended during certain aircraft operations.
10. Airport manager will designate the quarry area to be used. All quarry cuts must begin at the top of the face and proceed in lifts, not in excess of 30 feet, to the planned floor elevation. The final floor elevation shall be 33.0 feet.

11. Contractor is responsible to obtain all required permits for work in waters of the U.S. Corps permits require a minimum of four months for processing. ADOT&PF believes the contractor may require the following permits:
 - a. Corps permit for construction of structure in tidelands to support barge operations (Section 10).
 - b. Corps permit for construction of road through wetlands area at west end of airport (Section 404).
 - c. ADOT&PF Building Permit (\$50.00 fee, two week processing time).
 - d. ADOT&PF Material Removal Permit (No cost, two week processing time).

Wrangell Airport Quarry Blasting And Mining Airport Operational Safety Plan

1. Purpose: The purpose of this plan is to set forth the requirements and procedures to ensure that blasting and mining operations conducted at the Wrangell Airport rock quarry in conjunction with the Heritage Harbor construction project do not jeopardize safety of aviation operations at the airport.
2. Airport Management: The Wrangell Airport is owned and operated by the State of Alaska, Department of Transportation and Public Facilities (ADOT&PF). The primary point of contact for activities on the Wrangell Airport is the Wrangell Airport Manager. The airport manager may designate others to act in his absence. Policy and procedural guidance for airport operations is provided by ADOT&PF Southeast Region managers in Juneau.
3. Control of Operations On Or Near the Airport
 - 3.1. Contractor will control its operations and the operations of its subcontractors and suppliers so as to provide for the free and unobstructed movement of aircraft in the air operations areas of the airport. Air operations areas include all FAA designated airport surfaces, to include runways, safety areas, taxiways, aprons, and Part 77 primary surface areas. The contractors' operations are to be conducted safely and in a manner so as to create the least inconvenience to aircraft and persons working on and using the airport facilities.
 - 3.2. Contractor understands the need for good communications between its key employees and the Airport Manager. Contractor will establish procedures that are understood by its staff and the airport management staff.
 - 3.3. Contractor will provide one radio having a frequency of 122.6 Mhz and 122.45 Mhz simultaneously, and shall monitor that radio during all mining, blasting, loading, and hauling operations. Contractor will have a second radio, capable of communicating with other contractor equipment, operating on a frequency other than 122.6 and 122.45 Mhz. All contractor equipment (such as cranes and tug boats with masts) that will be operating inside FAA controlled airspace will monitor the second radio while in the airport area.
 - 3.4. Contractor will provide Airport Manager a minimum of 48 hours advanced notice of any work that will change the operating use of any portion of the airport, to include runways, safety areas, taxiways, aprons, and Part 77

surfaces. Any such work will be scheduled to minimize impact on air carriers' operations and to keep the closure to the shortest possible time period.

- 3.5. Contractor shall provide to the airport manager daily status reports of blasting, barge operations, or heavy equipment operations that take place in proximity to the Wrangell Airport. Reports shall indicate actual and proposed changes in the status of the quarry blasting, mining, loading and hauling operations.
- 3.6. Contractor shall hold weekly progress meetings concerning blasting and mining operations at a time and location designated by the airport manager.
 - 3.6.1. The meeting agenda shall include a summary by the contractor of the prior week's work and a description of the planned work for the following week.
 - 3.6.2. Contractor shall invite representative from the following organizations: Sitka FAA Flight Service Station; Alaska Airlines; Local Air Taxi Operators; FAA Maintenance; and the Airport Manager.
- 3.7. At this weekly meeting Contractor will submit a "Weekly Operational Safety Plan" which will include the following:
 - 3.7.1. Construction vehicle routing.
 - 3.7.2. Signing and markings for all areas.
 - 3.7.3. Work shift times.
 - 3.7.4. Landing and departure schedule of air carriers.
 - 3.7.5. Planned location and duration of work.
 - 3.7.6. Blasting schedules.
 - 3.7.7. Tug and barge loading operations (including equipment heights).
- 3.8. Contractor will coordinate all blasting operations with the airport manager. Contractor will cease blasting operations two hours before and until one hour after air carrier scheduled operations (arrival or departure). If air carrier aircraft deviate from published schedules, the aircraft operation will take precedence over a blasting operation.
- 3.9. Contractor will coordinate with airport manager all equipment operations which will penetrate Part 77 surfaces. Contractor will ensure that such operations meet all FAA and airport management requirements.
- 3.10. If Contractor has scheduled night mining operations, contractor shall provide all necessary portable lighting. Portable lighting shall have reflector pans installed that will allow the illumination to be directed downward and away from the runway centerline. All lighting shall be directed away from either of the runway approaches.

- 3.11. All work that will cause an interruption of the commercial power to the airport shall be coordinated with the Airport Manager.
- 3.12. Contractor will be charged \$5,000 per hour during the time the airport is closed due to a safety hazard caused by contractor's actions. This applies to unscheduled, unannounced closures only.

4. Controlled Area Firing Plan

- 4.1. Contractor will develop a Controlled Area Firing Plan acceptable to the airport manager, and obtain FAA approval of the Plan prior to conducting blasting operations on the airport. The plan will include the items listed below:
 - 4.1.1. Dates and times of scheduled blasting.
 - 4.1.2. Areas affected by blasting.
 - 4.1.3. Types of explosives being used, and typical explosive loads.
 - 4.1.4. Measures to prevent fly rock being ejected onto airport operating surfaces.
 - 4.1.5. Procedures to prevent encroachment of contractor's equipment and personnel onto airport operating areas.
 - 4.1.6. Safety and emergency procedures.
 - 4.1.7. Communications procedures and equipment.
 - 4.1.8. Process for positioning observers to monitor aircraft and watercraft operations during blasting, to include location of observers.
 - 4.1.9. Process for issuing and canceling all required NOTAMs.
 - 4.1.10. Physical security of explosives and blast site.

5. Coordination with Flight Service Station. The Airport Manager will coordinate quarry operations with the Sitka or Juneau Flight Service Station (FSS) as required. If the quarry activity requires a NOTAM, the Airport Manager will issue the NOTAM and provide a written copy of the NOTAM to the contractor.

6. Airport Safety and Security Advisor.

- 6.1. The Airport Manager will in all matters relating to airport safety and security advise and assist the contractor
- 6.2. In all matters of Airport safety and security, the Airport Manager shall have full authority to act and to direct the contractor or its subcontractors concerning airport safety and security.

6.3. The Airport Manager, or his designee, is the operating authority of the airport and, in the event of a safety hazard to aircraft operations, shall have the authority to close the airport to all aircraft operations until, in the opinion of the Airport Manager, the safety hazard no longer exists.

5/7/03
Alaska Department of Transportation & Public Facilities
Southeast Region
Juneau, Alaska

SECTION 00700a

General Wage Decision AK020001
(Dated (03/01/2002))

Modification Record:

No.	Publication Date
0	03/01/2002
1	03/08/2002
2	03/22/2002
3	03/29/2002
4	04/05/2002
5	04/12/2002
6	05/03/2002
7	05/10/2002
8	05/17/2002
9	06/07/2002
10	06/21/2002
11	07/05/2002
12	07/12/2002
13	07/19/2002
14	08/09/2002
15	08/30/2002
16	09/06/2002
17	09/13/2002
18	12/20/2002
19	01/03/2003
20	01/17/2003
21	02/07/2003
22	03/07/2003
23	03/14/2003
24	03/28/2003
AM#1... 25	04/18/2003 ...AM#1

General Wage Decision AK020006
(Dated (03/01/2002))

Modification Record:

No.	Publication Date
0	03/01/2002
1	03/22/2002
2	03/29/2002
3	05/03/2002
4	06/07/2002
5	06/21/2002
6	07/05/2002
7	07/12/2002
8	07/19/2002
9	08/09/2002
10	08/30/2002
11	09/06/2002
12	12/20/2002
13	01/03/2003
14	02/07/2003

BRS Document Viewer
General Decision Number AK020001

General Decision Number AK020001
Superseded General Decision No. AK010001
State: Alaska Construction Type:

BUILDING
HEAVY

County(ies):
STATEWIDE

BUILDING AND HEAVY CONSTRUCTION PROJECTS (does not include residential construction consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	03/01/2002
1	03/08/2002
2	03/22/2002
3	03/29/2002
4	04/05/2002
5	04/12/2002
6	05/03/2002
7	05/10/2002
8	05/17/2002
9	06/07/2002
10	06/21/2002
11	07/05/2002
12	07/12/2002
13	07/19/2002
14	08/09/2002
15	08/30/2002
16	09/06/2002
17	09/13/2002
18	12/20/2002
19	01/03/2003
20	01/17/2003
21	02/07/2003
22	03/07/2003
23	03/14/2003
24	03/28/2003
25	04/18/2003

COUNTY(ies):

STATEWIDE

* ASBE0097A 01/01/2003

	Rates	Fringes
ASBESTOS WORKERS/INSULATORS (includes application of all insulating materials protective coverings, coatings and finishings to all types of mechanical systems)	27.83	7.12

ASBE0097B 04/01/2002

	Rates	Fringes
HAZARDOUS MATERIAL HANDLER (includes preparation, wetting, stripping, removal scrapping, vacuming, bagging, and disposing		

of all insulation materials, whether they
 contain asbestos or not, from mechanical
 systems) 24.30 8.11

BOIL0502A	10/01/2002		
		Rates	Fringes
BOILERMAKERS		34.35	13.55

BRAK0001A	07/01/2002		
		Rates	Fringes
BRICKLAYERS, BLOCKLAYERS, STONEMASON, MARBLE MASON, TILE SETTER & TERRAZZO WORKER		28.91	11.80
TILE & TERRAZZO FINISHERS		23.48	11.80

CARP1243A	07/01/2002		
		Rates	Fringes
NORTH OF THE 63RD PARALLEL CARPENTERS/LATHER/DRYWALL APPLICATOR		30.80	11.60
DEWALT OR SIMILAR TYPE SAW OPERATORS; SAW FILERS; NAIL- ING MACHINE OPERATORS; POWER- ACTUATED TOOL OPERATOR; MAR- LITE AND ACOUSTICAL APPLICATOR FLOOR WORKERS; FIRE OR FLOOD REPAIR WORK		31.37	11.60
MILLWRIGHTS		31.75	11.60

CARP1281A	07/01/2002		
		Rates	Fringes
SOUTH OF 63RD PARALLEL CARPENTERS & DRYWALLERS ACOUSTICAL APPLICATOR AND LATHERS		28.10	12.20
MILLWRIGHTS		28.80	12.20

CARP2520A	08/01/2002		
		Rates	Fringes
DIVERS:			
WORKING		61.94	12.20
STAND-BY		30.97	12.20
TENDER		29.97	12.20
PILEDRIVERS:			
WELDER		28.40	12.20
CARPENTER		27.80	12.20
SHEET PILE STABBER		27.64	12.20
PILEDRIVER; SKIFF OPERATOR AND RIGGER		26.64	12.20

ELEC1547A	11/04/2002		
		Rates	Fringes
ELECTRICIANS; TECHNICIANS		31.42	3%+11.35
CABLE SPLICERS		33.17	3%+11.35

ELEC1547B	01/01/2003		
		Rates	Fringes

LINEMEN; EQUIPMENT OPERATORS; TECHNICIAN	34.10	3%+14.05
CABLE SPLICER	32.10	3%+14.05
POWDERMAN	35.85	3%+14.05
TREE TRIMMER	22.90	3%+14.05

 * ELEV0019A 01/01/2003

	Rates	Fringes
ELEVATOR MECHANICS	36.105	9.355+a

FOOTNOTE: a. Employer contributes 8% of the basic hourly rate for over 5 year's service and 6% of the basic hourly rate for 6 months to 5 years' of service as vacation paid credit. Seven paid holidays: New Year's Day; Memorial Day; Independence Day; Labor Day, Thanksgiving Day; Friday after Thanksgiving and Christmas Day

 ENGI0302L 07/01/2002

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
GROUP 1	31.71	10.01
GROUP 1A	33.25	10.01
GROUP 2	31.04	10.01
GROUP 3	30.41	10.01
GROUP 4	24.99	10.01

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Roller; Back Filler; Barrier Machine (Zipper); Batch Plant Operator: Batch and Mixer over 200 yds.; Beltcrete with power pack and similar conveyors; Bending Machine; Boat Coxwains; Bulldozers; Cableways, Highlines and Cablecars; Cleaning Machine; Coating Machine; Concrete Hydro Blaster; Cranes-45 tons and under or 150 foot boom and under (including jib and attachments): (a) Shovels, Backhoes, Draglines, Clamshells; Gradalls-3 yards and under; (b) Hydralifts or Transporters, all track or truck type, (c) Derricks; Crushers; Deck Winches-Double Drum; Ditching or Trenching Machine (16 inch or over); Drilling Machines, core, cable, rotary and exploration; Finishing Machine Operator, concrete paving, Laser Screed, sidewalk, curb and gutter machine; Helicopters; Hover Craft, Flex Craft, Loadmaster, Air Cushion, All Terrain Vehicle, Rollagon, Bargecable, Nodwell Sno Cat; Hydro Ax: Feller Buncher and similar; Loaders: Forklifts with power boom and swing attachment, Overhead and front end, 2 1/2 yards through 5 yards, Loaders with forks or pipe clamps, Loaders, elevating belt type, Euclid and similar types; Mechanics, Bodyman; Micro Tunneling Machine; Mixers: Mobile type w/hoist combination; Motor Patrol Grader; Mucking Machines: Mole, Tunnel Drill, Horizontal/Directional Drill Operator, and/or Shield; Operator on Dredges; Piledriver Engineers, L. B. Foster, Puller or similar Paving Breaker; Power Plant, Turbine Operator, 200 k.w. and over (power plants or combination of power units over 300 k.w.); Sauerman-Bagley; Scrapers-through 40 yards; Service Oiler/Service Engineer; Sidebooms-under 45 tons; Shot Blast Machine; Spreaders, Blaw Knox, Cedarapids, Barber Greene, Slurry Machine; Sub-grader (Gurries, C.M.I. and C.M.I. Roto Mills and similar types); Tack tractor; Truck mounted Concrete Pumps, Conveyor, Creter; Water Kote Machine; Unlicensed off road hauler

GROUP 1A: Cranes-over 45 tons or 150 foot (including jib and attachments): (a) Shovels, backhoes, draglines, clamshells-over 3 yards, (b) Tower cranes; Loaders over 5 yds.; Motor Patrol Grader (finish: when finishing to final graders and/or to hubs, or for asphalt); Power Plants: 1000 k.w. and over; Quad; Screed; Sidebooms over 45 tons; Slip Form Paver C.M.I. and similar types; Scrapers over 40 yards

GROUP 2: Batch Plant Operators: Batch and Mixer 200 yds. per hour and under; Boiler-fireman; Cement Hog and Concrete Pump Operator; Conveyors (except as listed in group 1); Hoist on steel erection; Towermobiles and Air Tuggers; Horizontal/Directional Drill Locator; Loaders, Elevating Grader, Dumor and similar; Locomotives: rod and geared engines; Mixers; Screening, Washing Plant; Sideboom (cradling rock drill regardless of size); Skidder; Trenching Machine under 16 inches.

GROUP 3: "A" Frame Trucks, Deck Winches: single power drum; Bombardier (tack or tow rig); Boring Machine; Brooms-power; Bump Cutter; Compressor; Farm tractor; Forklift, industrial type; Gin Truck or Winch Truck with poles when used for hoisting; Grade Checker and Stake Hopper; Hoist, Air Tuggers, Elevators; Loaders: (a) Elevating-Athey, Barber Green and similar types (b) Forklifts or Lumber Carrier (on construction job site) (c) Forklifts with Tower (d) Overhead and Front-end, under 2 1/2 yds.

Locomotives: Dinkey (air, steam, gas and electric) Speeders; Mechanics (light duty); Mixers: Concrete Mixers and Batch 200 yds. per hour and under; Oil, Blower Distribution; Post Hole Diggers, mechanical; Pot Fireman (power agitated); Power Plant, Turbine Operator, under 300 k.w.; Pumps-water; Rig oiler/assistant engineer, over 45 ton, over 3 yards or over 150 foot boom; Roller-other than Plantmix; Saws, concrete; Straightening Machine; Tow Tractor

GROUP 4: Rig Oiler/Assistant Engineer (Advances to Group III if over 45 tons or 3 yards or 150 ft. boom); Swamper (on trenching machines or shovel type equipment); Spotter; Steam Cleaner

FOOTNOTE: Groups 1-4 receive 10% premium while performing tunnel or underground work.

IRON0751A 08/01/2002		
	Rates	Fringes
IRONWORKERS:		
BRIDGE, STRUCTURAL, ORNAMENTAL, REINFORCING MACHINERY MOVER, RIGGER, SHEETER, STAGE RIGGER, BENDER OPERATOR	27.50	13.60
GUARDRAIL LAYOUT MAN	24.74	13.35
FENCE, BARRIER AND GUARDRAIL INSTALLERS	24.00	13.35
HELICOPTER, TOWER	28.50	13.60

LABO0341A 09/01/2002		
	Rates	Fringes
LABORERS:		
GROUP 1	24.49	11.50
GROUP 2	25.24	11.50
GROUP 3	25.89	11.50

GROUP 3A	27.49	11.50
GROUP 4	16.84	11.50

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Workers (shovelman, plant crew); Brush Cutters; Camp Maintenance Laborer; Carpenter Tenders; Choke Setters, Hook Tender, Rigger, Signalman; Concrete Laborer (curb and gutter, chute handler, grouting, curing, screeding); Crusher Plant Laborer; Demolition Laborer; Ditch Diggers; Dump Man; Environmental Laborer (asbestos (limited to nonmechanical systems), hazardous and toxic waste, oil spill); Fence Installer; Fire Watch Laborer; Flagman; Form Strippers; General Laborer; Guardrail Laborer, Bridge Rail Installers; Hydro-Seeder Nozzleman; Laborers (building); Landscape or Planter; Material Handlers; Pneumatic or Power Tools; Portable or Chemical Toilet Serviceman; Pump Man or Mixer Man; Railroad Track Laborer; Sandblast, Pot Tender; Saw Tenders; Scaffold Building and Erecting; Slurry Work; Stake Hopper; Steam Point or Water Jet Operator; Steam Cleaner Operator; Tank Cleaning; Utiliwalk and Utilidor Laborer; Watchman (construction projects); Window Cleaner

GROUP 2: Burning and Cutting Torch; Cement or Lime Dumper or Handler (sack or bulk); Choker Splicer; Chucktender (wagon, airtrack and hydraulic drills); Concrete Laborers (power buggy, concrete saws, pumpcrete nozzleman, vibratorman); Environmental Laborer (marine work); Foam Gun or Foam Machine Operator; Green Cutter (dam work); Guardrail Machine Operator; Gunnite Operator; Hod Carriers; Jackhammer or Pavement Breakers (more than 45 pounds); Mason Tender and Mud Mixer (sewer work); Plasterer, Bricklayer and Cement Finisher Tenders; Power Saw Operator; Railroad Switch Layout Laborer; Sandblaster; Sewer Caulkers; Sewer Plant Maintenance Man; Thermal Plastic Applicator; Timber Faller, chain saw operator, filer; Timberman

GROUP 3: Bit Grinder; Drill Doctor (in the field); Drillers (including, but not limited to, wagon drills, air track drills; hydraulic drills); High Rigger and tree topper; Higher Scaler; Pioneer Drilling and Drilling Off Tugger (all type drills); Powderman; Slurry Seal Squeegee Man

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Grade checker (setting or transferring of grade marks, line and grade); Pipelayers

GROUP 4: Final Building Cleanup

TUNNELS, SHAFTS, AND RAISES

GROUP 1	26.94	11.50
GROUP 2	27.76	11.50
GROUP 3	28.48	11.50
GROUP 3A	30.24	11.50

TUNNELS, SHAFTS, AND RAISES CLASSIFICATIONS

GROUP 1: Brakeman; Muckers; Nippers; Topman and Bull Gang; Tunnel Track Laborer

GROUP 2: Burning and Cutting Torch; Concrete Laborers; Jackhammers; Laser Instrument Operators; Nozzleman, Pumpcrete or Shotcrete; Pipelayers.

GROUP 3: Miner; Miner; Retimberman

GROUP 3A: Powderman

Tunnel shaft and raise rates only apply to workers regularly employed inside a tunnel portal or shaft collar.

PAIN1140C 09/01/2002		
	Rates	Fringes
SOUTH OF THE 63RD PARALLEL PAINTERS		
Brush, Roller, Sign	22.61	10.37
Paper and Vinyl, Swing Stage, Taper/Drywall, Structural Steel	23.01	10.37
Spray-Sand/Blast, Epoxy and Tar Applicator	23.61	10.37
Steeple Jack & Tower	24.61	10.37

PAIN1140E 09/01/2002		
	Rates	Fringes
SOFT FLOOR LAYERS	24.80	7.85

PAIN1140F 01/01/2003		
	Rates	Fringes
SOUTH OF THE 63RD PARALLEL GLAZIERS	26.60	10.00

* PAIN1555C 04/01/2003		
	Rates	Fringes
NORTH OF THE 63RD PARALLEL PAINTERS:		
BRUSH, BUFFER OPERATOR, FLOOR- COVERER, POT TENDER, ROLL SPRAY, WALLCOVERER	27.00	10.97
HAZARDOUS MATERIAL APPLICATOR, LEAD BASED PAINT ABATEMENT, RADON MITIGATION, SANDBLAST, STRUCTURAL STEEL, TAPING, TEXTURING	27.50	10.97

PAIN1555E 01/01/2003		
	Rates	Fringes
NORTH OF THE 63RD PARALLEL GLAZIERS	26.62	10.05

PLAS0867A 02/01/2003		
	Rates	Fringes
NORTH OF THE 63RD PARALLEL:		
CEMENT MASONS	29.26	9.95
PLASTERERS	30.74	9.95
SOUTH OF THE 63RD PARALLEL		
CEMENT MASONS	29.01	9.95
PLASTERERS	30.49	9.95

PLUM0262C 01/01/2003		
	Rates	Fringes
East of the 141st Meridian PLUMBERS; STEAMFITTERS	28.59	10.55

PLUM0367B 07/01/2002		
	Rates	Fringes
South of the 63rd Parallel PLUMBERS; STEAMFITTERS	30.30	11.15

PLUM0375A 07/01/2002		
	Rates	Fringes
North of the 63rd Parallel PLUMBERS; STEAMFITTERS	33.51	11.15

* PLUM0669A 04/01/2003		
	Rates	Fringes
SPRINKLER FITTER	36.60	8.60

ROOF0190A 09/27/2002		
	Rates	Fringes
NORTH OF THE 63RD PARALLEL: ROOFERS	29.43	10.92
SOUTH OF THE 63RD PARALLEL: ROOFERS	27.43	10.92

SHEE0023A 01/01/2003		
	Rates	Fringes
South of the 63rd Parallel: SHEET METAL WORKERS	30.55	11.24

* SHEE0023B 04/01/2003		
	Rates	Fringes
North of the 63rd Parallel: SHEET METAL WORKERS	33.39	12.14

TEAM0959A 09/01/2002		
	Rates	Fringes
TRUCK DRIVERS:		
GROUP 1	31.40	9.57
GROUP 1A	32.45	9.57
GROUP 2	30.35	9.57
GROUP 3	29.67	9.57
GROUP 4	29.20	9.57
GROUP 5	28.56	9.57
GROUP 1: Semi with Double Box Mixer; Dump Trucks (including rockbuggy and trucks with pups) over 40 yards up to and including 60 yards; Deltas, Commanders, Rollogans and similar equipment when pulling sleds, trailers or similar equipment; Boat Coxswain; Lowboys including attached trailers and jeeps, up to and including 12 axles; Ready-mix over 12 yards up to and including 15 yards)		
GROUP 1A: Dump Trucks (including Rockbuggy and Trucks with pups) over 60 yards up to and including 100 yards		
GROUP 2: Turn-O-Wagon or DW-10 not self-loading; All Deltas, Commanders, Rollogans, and similar equipment; Mechanics; Tireman, heavy duty; Dump Trucks (including Rockbuggy and Trucks with pups) over 20 yards up to and including 40 yards; Lowboys including attached trailers and jeeps up to and including 8 axles; Super vac truck/cacasco truck/heat stress truck; Ready-mix over 7 yards up to and including 12 yards		
GROUP 3: Dump Trucks (including Rockbuggy and Trucks with pups) over 10 yards up to and including 20 yards; batch trucks 8 yards and up; Oil distributor drivers; Greaser; Water Wagon (when pulled by Euclid or similar type equipment); Partsman		
GROUP 4: Buggymobile; Semi or Truck and trailer; Dumpster;		

Tireman (light duty); Dump Trucks (including Rockbuggy and Truck with pups) up to and including 10 yards; Track Truck Equipment; Stringing Truck; Fuel Truck; Fuel Handler with truck; Grease Truck; Flat Beds, dual rear axle; Hyster Operators (handling bulk aggregate); Lumber Carrier; Water Wagon, semi; Water Wagon, dual axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame manufactured rating over 5 tons; Bull Lifts and Fork Lifts with Power Boom and Swing attachments, over 5 tons; Front End Loader with Forks; Bus Operator over 30 passengers; All Terrain Vehicles; Boom Truck/Knuckle Truck over 5 tons; Foam Distributor Truck/dual axle; Hydro-seeders, dual axle; Vacuum Trucks, Truck Vacuum Sweepers; Vacuum Trucks, Truck Vacuum Sweepers; Loadmaster (air and water); Air Cushion or similar type vehicle; Fire Truck; Combination Truck-fuel and grease; Compactor (when pulled by rubber tired equipment); Rigger (air/water/oilfield); Ready Mix, up to and including 7 yards

GROUP 5: Gravel Spreader Box Operator on Truck; Flat Beds, single rear axle; Boom Truck/Knuckle Truck up to and including 5 tons; Pickups (Pilot Cars and all light duty vehicles); Water Wagon, single axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame, manufactured rating 5 tons and under; Bull Lifts and Fork Lifts (fork lifts with power broom and swing attachments up to and including 5 tons); Buffer Truck; Tack Truck; Bus Operators (up to 30 passengers); Farm type Rubber Tired Tractor (when material handling or pulling wagons on a construction project); Foam Distributor, single axle; Hydro-Seeders, single axle; Team Drivers (horses, mules and similar equipment); Rigger (warehouse operation); Fuel Handler (station/bulk attendant); Batch Truck, up to and including 7 yards

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the

Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

PROJECT TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

01016 SPECIAL ITEMS (CIVIL WORKS)
01090 SOURCES FOR REFERENCE PUBLICATIONS
01271 MEASUREMENT, PAYMENT, AND CONTRACT COST BREAKDOWN
01330 SUBMITTAL PROCEDURES
01410 ENVIRONMENT PROTECTION
01451 CONTRACTOR QUALITY CONTROL
01500 TEMPORARY CONSTRUCTION FACILITIES
01581 PROJECT MARKER
01720 AS-BUILT DRAWINGS

DIVISION 02 - SITE WORK

02222 DREDGING, EXCAVATION, AND DISPOSAL
02270 BREAKWATERS, ROCK
02316 EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITIES SYSTEMS
02630 STORM-DRAINAGE SYSTEM
02722 AGGREGATE AND/OR GRADED-CRUSHED AGGREGATE BASE COURSE
02731 AGGREGATE SURFACE COURSE

-- End of Project Table of Contents --

SECTION TABLE OF CONTENTS

DIVISION 02 - SITE WORK

SECTION 02270

BREAKWATERS, ROCK

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 SUBMITTALS

PART 2 PRODUCTS

- 2.1 ROCK SOURCE
 - 2.1.1 Quarry Development Plan
 - 2.1.2 Additional Requirements
 - 2.1.3 Retainage
- 2.2 ROCK QUALITY
 - 2.2.1 Testing
- 2.3 ROCK QUALITY ACCEPTANCE
- 2.4 ROCK GRADATION, SIZE, ANGULARITY
 - 2.4.1 General

PART 3 EXECUTION

- 3.1 PRODUCTION TESTING
- 3.2 SIZING
- 3.3 PLACEMENT
 - 3.3.1 "A" and "B" Rock
 - 3.3.2 "Sub-Core" Rock
- 3.4 TOLERANCES
- 3.5 STOCKPILING
- 3.6 SURVEYS
- 3.7 APPENDICIES

-- End of Section Table of Contents --

SECTION 02270

BREAKWATERS, ROCK

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM C 127-88 (R93)	Specific Gravity and Absorption of Coarse Aggregate
ASTM C 295-90	Petrographic Examination of Aggregates for Concrete
ASTM D 442-90	Standard Test Method for Particle-size Analysis of Soils
ASTM D 2487-93	Classification of soils for Engineering Purposes (Unified Soil Classification System)

U.S. Army Corps of Engineers, Handbook for Concrete and Cement (CRD)

CRD-C 148-69	Method of Testing Stone for Expansive Breakdown on Soaking in Ethylene Glycol
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1.2 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with SECTION 01330 SUBMITTAL DESCRIPTIONS:

SD-01 Data

Rock Quality; FIO.

Laboratory results of tests specified to identify quality of materials.

Rock Gradation, Size, and Angularity;FIO.

Test results using methods specified for gradation and size of materials produced.

SD-04 Drawings

Cross-sections and Design Templates; FIO.

Shall be provided with Pre-Construction, Interim Condition, Post-Construction, and Construction Verification Surveys.

SD-09 Reports

Quarry Development Plan; GA.

Appendix B provides guidance for preparation of plan concerning the development and operation of a quarry.

Report of petrographic examination; FIO.

Report provided by qualified petrographer with certified and complete test results stating the rock quality requirement compliance.

PART 2 PRODUCTS

2.1 ROCK SOURCE

There is no Government furnished or designated rock source for this project. The Contractor shall obtain rock which meets all requirements specified herein. All Federal, State and local laws and regulations pertaining to surface mining, safety, and protection of the environment shall be complied with in furnishing the rock. The Contractor shall be responsible for all permits and/or easements for the rock source. The Contractor shall identify its proposed rock source during the pre-award survey.

2.1.1 Quarry Development Plan

The Corps of Engineers, Alaska District, has entered into a Letter of Agreement (LOA) with the State of Alaska, and a separate LOA with the U.S. Fish and Wildlife Service concerning development and operation of quarry sites for Civil Works Projects administered by the Corps of Engineers. The LOA's are enclosed herein as Appendix A. These LOA's require the Contractor to submit through the Contracting Officer to the U.S. Fish and Wildlife Service and to the State of Alaska a quarry development plan for review and approval under the conditions stipulated in the LOA's. The Contractor shall perform all work in accordance with these LOA's. A quarry development plan is required for all new and existing quarries to be utilized for this project. Guidance for preparing a quarry development plan and items to be addressed are enclosed herein as Appendix B.

2.1.2 Additional Requirements

Development of a new quarry site or using an existing quarry site requires the review of permits from Local, State, and Federal agencies for furnishing rock required by this contract. A new quarry site will require the reopening of the National Environmental Policy Act (NEPA) process and a

determination by the State of Alaska of consistency with its Coastal Management Program. Significant expansion of an existing quarry site may also require reopening the NEPA process. The quarry development plan review outlined in the LOA's will indicate what is required. Reopening the NEPA process and review with the State's Coastal Management Program may take a year or more to complete. For development of a new quarry site or using an existing quarry site, the Contractor is responsible for investigating and obtaining all necessary reviews and permits from Local, State, and Federal agencies. The Contractor is responsible for its (the Contractor's) costs and delays as a result of the reviews and permits requirements.

2.1.3 Retainage

Ten percent of payment for rock related items of work will be withheld, in addition to any other retainages, until all environmental requirements of the quarry development plan have been complied with.

2.2 ROCK QUALITY

Laboratory tests and visual geologic examinations shall be made to determine acceptability of materials. Rock shall be composed of hard, strong, durable materials that will not slake or deteriorate upon exposure to the action of water or atmosphere; shall not contain cracks, joints, faults, seams, laminations, or bands of minerals or deleterious materials which would result in breakage during or after placement in the breakwater(s); and shall be free of expansive or other materials which would cause accelerated deterioration by exposure to project conditions. Materials shall meet the following test requirements for quality:

<u>TEST</u>	<u>RESULTS</u>
1. Specific Gravity, BSSD ASTM C 127-88 (R93)	Not less than 2.65
2. Absorption ASTM C 127-88 (R93)	Not greater than 2.5%
3. Freeze-Thaw (300 cycles) NPD Lab Method (Described in App. C)	Not greater than 10.0% loss by weight
4. Accelerated Expansion (Ethylene Glycol) CRD-C 148-69	No breakage
5. Wetting-Drying (300 cycles) NPD Lab Method (Described in App. C)	Not greater than 10.0% loss by weight
6. Petrographic Examination w/ X-Ray Diffraction Analysis ASTM C 295-90	See note below

Note: The petrographic examination shall be used to identify micro fractures, seams, expansive minerals, or other defects which might cause accelerated deterioration from exposure to the project conditions.

AM#1...Laboratory Tests 3 and 5 are not required for "Sub-Core" rock....AM#1

2.2.1 Testing

Testing shall be the responsibility of the Contractor and shall be performed by an independent commercial test laboratory currently approved by the Corps of Engineers. The petrographic examination shall be done by a qualified petrographer with 5 or more years experience in petrography. The Contractor shall furnish certified, complete copies of all test results and report of petrographic examination to the Contracting Officer.

2.3 ROCK QUALITY ACCEPTANCE

All rock will be accepted or rejected at the job site based on test results and visual geologic examination by the Government. Test results shall be furnished to the Government 30 days prior to any placement of rock. No further laboratory testing of rock will be necessary if results meet the requirements specified, and a continuous visual geologic examination of the rock by the Government indicates no change in rock type or quality for rock passing the laboratory tests. Rock exhibiting significant changes in type or quality will be rejected unless additional testing shows that the rock meets the specified requirements.

2.4 ROCK GRADATION, SIZE, ANGULARITY

2.4.1 General

The rock, after processing, shall be angular and conform to the size requirements indicated below. Neither the breadth or thickness of any piece of "A" rock, or "B" rock shall be less than one-third its length. Operations of loading, placement or stockpiling shall be conducted in a manner which will prevent breakage.

- a. Core Rock (Breakwaters). Core material shall be graded within the following limits:

<u>Specified Rock Weight (Pounds)</u>	<u>Allowable Percent Smaller By Weight</u>
225	100
30	0 - 85
1	0 - 1

- b. "B" Rock. "B" Rock shall be graded within the following limits:

<u>Specified Rock Weight (Pounds)</u>	<u>Allowable Percent Smaller By Weight</u>
2,250	100
300	25 - 85

225

0 - 5

c. "A" Rock. The average weight of each individual rock shall be 3,000 pounds or greater. No stone shall weigh more than 3,750 pounds or less than 2,250 pounds.

d. Core Rock (Intertidal Disposal Site slope protection and berms). Core material shall be graded within the following limits:

<u>Specified Rock Weight (Pounds)</u>	<u>Allowable Percent Smaller By Weight</u>
225	100
30	50 - 85
1	5 - 10
0.5	0 - 1

e. Filter Rock. Filter rock placed in the filter layer shall be well-graded (in accordance with ASTM D 2847-93) gravel with a maximum of 30 percent passing the number four (#4) sieve.

f. Sub-Core Rock (Breakwaters). Sub-Core material shall be angular in shape, have no pieces weighing more than 300 pounds and have not more than 10 percent by weight passing the #4 sieve. Sub-Core material shall not have more than 1 percent by weight passing the #200 sieve and shall not contain organic debris.

PART 3 EXECUTION

3.1 PRODUCTION TESTING

The Contractor shall perform the following minimum rock gradation tests. Samples shall be taken at the source of the materials, and at subsequent points during transport if directed. No failing tests shall count toward meeting the minimum number of representative tests. Tests shall be evenly spaced throughout production. Tests shall be by actual weighing. Results shall be provided to the Contracting Officer within 24 hours, or sooner if requested.

a. Core Rock: At least 10 representative tests for breakwater core material. Test size shall be at least 2,000 pounds and the test shall be by actual weights. Tests for Core Material shall consist of determining the total weight of all the rocks and the individual weight of each rock in the sample respectively. Percent smaller by weight shall be determined by dividing the total weight of the sample into the sum of the total weight of the rocks smaller than the specified rock weight.

b. "B" Rock: At least 10 representative tests. Each sample shall be approximately 5 cubic yards in volume. Tests for "B" Rock shall consist of determining the total weight of all the rocks and the individual weight of each rock in the sample respectively. Percent smaller by weight shall be determined by dividing the total weight of

the sample into the sum of the total weight of the rocks smaller than the specified rock weight.

c. "A" Rock: At least 5 representative tests. Each sample shall be approximately 20 cubic yards in volume. Tests for "A" Rock shall consist of weighing each individual rock within the sample. The total weight of the sample shall be divided by the number of rocks in the sample to determine the average rock weight.

d. Slope Protection and Berm Core Rock: At least 3 representative tests for intertidal disposal site slope protection and berm core material. Test size shall be at least 2,000 pounds and the test shall be by actual weights. Tests for Core Material shall consist of determining the total weight of all the rocks and the individual weight of each rock in the sample respectively. Percent smaller by weight shall be determined by dividing the total weight of the sample into the sum of the total weight of the rocks smaller than the specified rock weight.

e. Filter Rock. At least 5 representative tests. Test size shall be approximately 100 pounds. Tests shall conform to ASTM D 442-90.

f. Sub-Core Rock. At least 10 representative tests for breakwater Sub-Core material. Test size shall be at least 2,000 pounds and the test shall be by actual weights. Tests for Sub-Core Material shall consist of determining the total weight of all the rocks and the individual weight of each rock in the sample respectively. Percent smaller by weight shall be determined by dividing the total weight of the sample into the sum of the total weight of the rocks smaller than the specified rock weight.

3.2 SIZING

The Contractor shall display at least one typical rock in each of the following weight ranges, within easy sight of the quarry loading area and at the project site, to ensure proper sizing. The weight shall be clearly marked on each rock.

225 Pounds

300 Pounds

350 Pounds

2,200 to 2,300 Pounds

2,900 to 3,100 Pounds

3,700 to 3,800 Pounds

3.3 PLACEMENT

All materials shall be placed in such a manner as to produce a well-keyed mass of rock with individual pieces tightly in contact with each

surrounding stone, and with the least practicable amount of void spaces. The finished surface shall be free from pockets of single size rock. Placement of small rock to choke the spaces between large rock, or for leveling the surface, will not be permitted. Breaking of individual pieces in place by blasting or mechanical methods will not be permitted. Each class of rock shall be placed to the full course thickness at one operation and in such manner as to avoid displacing the underlying material. Placing by methods likely to cause segregation will not be permitted. The desired distribution of the various sizes of rock throughout the mass shall be obtained by selective loading at the quarry and by controlled placement of successive loads. Rearranging of individual pieces by mechanical equipment or by hand will be required to the extent necessary to correct deficiencies, and to provide a uniform, tightly knit slope. Materials that do not meet the specified requirements for size, quality, or distribution of sizes shall be removed and replaced with suitable materials at no additional cost to the Government.

3.3.1 "A" and "B" Rock

"A" and "B" rock shall be placed on the prepared slopes within the limits shown. The finished slopes shall present a uniform and regular surface not steeper than those shown. The Contractor shall maintain the "A" and "B" rock until final acceptance. Any material displaced shall be replaced, at the Contractor's expense, to the slopes, lines, and grades shown on the drawings.

3.3.2 "Sub-Core" Rock

a. "Sub-Core" Rock. Rock shall be placed at the location and to the thickness defined by the design grades shown on the drawings to form the bases for the breakwaters. The sub-core rock for the West Breakwater and the North Breakwater shall be constructed in horizontal lifts not exceeding 20 feet. Lift thickness shall be determined by surveying the thickness of rock placed on the ocean bottom and on subsequent lifts. Surveys may be performed by the contractor provided that the survey accuracy and worker qualification requirements of SECTION 01016 SPECIAL ITEMS (CIVIL WORKS) are met. It is expected that the first lift or two of the "Sub-Core" Rock base may result in some minor settlement of the existing bottom sediments, which is acceptable.

The first loads of each lift of the West and North breakwater bases shall be placed along the alignment centerlines beginning at the seaward ends and proceeding shoreward. Subsequent loads of each lift shall be placed in runs parallel to the centerlines and contiguous with previously placed rows, proceeding seaward or shoreward, so that lift construction spreads from the centerline toward the toes. All lifts shall be completed in their entirety prior to starting the next lift. The side slopes of the "Sub-Core" Rock bases shall be 1.5 horizontal on 1 vertical within specified tolerances.

b. Placement Plan. It is anticipated that the depth of water will make control of rock placement difficult. The Contractor shall therefore submit a plan for rock placement based upon thickness of material to be placed and upon controlling barge/scow or other equipment location and dump method. The plan shall assure that the

thickness of rock as bounded by the design grades and the estimated bottom is placed at all locations within the breakwater footprints. The Contractor shall submit the placement plan to the Contracting Officer no later than 30 days prior to any placement of rock into the "Sub-Core" Rock bases. The placement plan shall present a placement procedure which results in and assures that the barge/scow or other equipment places rock at the proper location. The plan shall address actions to be employed during placement which compensate for wave action and tidal currents. The type, dimensions, capacities, and capabilities of the barge/scow or other equipment shall be included.

3.4 TOLERANCES

a. Core Rock (breakwaters) . A tolerance of plus or minus 6 inches from the lines and grades shown on the drawings will be allowed, except that either extreme of such tolerance shall not be continuous over an area greater than 20 square yards.

b. "A" and "B" Rock. "A" and "B" rock shall be placed to the full thickness shown on the drawings. No minus tolerance will be permitted. The total tolerance of plus 6-inch for Armor and "B" rock combined from the lines and grades shown on the drawings will be allowed, except that the extreme of such tolerance shall not be continuous over an area greater than 20 square yards. The outside slopes shall present a uniform appearance with a minimum of pieces projecting outside the finished slope surface.

c. "Sub-Core" Rock. Finished slopes of the "Sub-Core" Rock bases shall not deviate more than 1 foot vertically above or below the design 1.5 horizontal on 1 vertical slopes shown on the drawings, except that the extreme of this tolerance shall not be continuous over an area greater than 1000 square feet. Rock placed beyond this maximum tolerance shall be corrected by grading if so directed by the Contracting Officer or his representative. Grading shall be completed before placing the next lift. "Sub-Core" Rock shall be placed to the elevation shown on the drawings. No minus tolerance will be permitted. The total tolerance of plus 1 foot for "Sub-Core" Rock from the lines and grades shown on the drawings will be allowed, except that the extreme of such tolerance shall not be continuous over an area greater than 20 square yards. The outside slopes shall present a uniform appearance with a smooth outside finished slope surface.

3.5 STOCKPILING

If material is stockpiled, the stockpile shall be constructed in lifts not exceeding 7.5 feet and the final height of stockpile shall not exceed 15 feet. Any method of stockpiling which could cause segregation within the stockpile or excessive breakage will not be permitted. Armor rock shall not be piled more than three rocks high.

3.6 SURVEYS

The Contractor shall perform surveys as specified below and in accordance with SECTION 01016 SPECIAL ITEMS (CIVIL WORKS). Cross sections for each

survey shall be taken at 25-foot stations along each breakwater center line. Soundings shall be taken at 25-foot intervals along each station perpendicular to the center line of the breakwaters, and extending 20 feet beyond the toe on each side. Soundings shall capture all breakpoints. Additional surveys shall be conducted as required to control the Contractor's operations and placement of materials.

- a. Pre-Construction Survey. A pre-construction survey shall be conducted prior to initial placement of any materials.
- b. Interim Condition Surveys. Interim condition surveys shall be conducted after placement of the Core rock and "B" rock. Two interim condition surveys shall be performed. The pattern and timing of condition surveys shall be subject to mutual agreement between the Contractor and the Contracting Officer.
- c. Post-Construction Survey. A post-construction survey shall be conducted immediately following completion of each breakwater.
- d. The Contractor shall provide cross-sections of the material placed and the breakwater design template drawn on the same axis using different line types for the material placed and the template. The cross sections scale shall be 1"=20' both horizontally and vertically. Cross-sections and templates shall be provided on all 25 foot stations.

In addition to the surveys required above, Construction Verification Surveys shall be performed and submitted to the Contracting Officer's Representative to verify that the breakwater is being constructed as shown on the contract drawings. Construction Verification Surveys shall be performed every two weeks during rock placement regardless of the layer completion status, and may be performed by the Contractor provided that the survey accuracy and worker qualification requirements of SECTION 01016 SPECIAL ITEMS (CIVIL WORKS) are met. The cross section stationing shall be the same as the Interim Construction Surveys. The cross sections shall show each layer of material placed during the two week time period, and shall be drawn as specified in SECTION 02270 BREAKWATERS, ROCK paragraph SURVEYS. The cross sections shall be plotted on paper and submitted to the Contracting Officer's Representative within 7 days of the completion of each Construction Verification Survey.

Confirmation Surveys (Sub-Core" Rock). A confirmation condition survey shall be performed to establish the reliability of the "Sub-Core" Rock placement plan when the first lift extends 100 feet either side of centerline unless otherwise directed by the Contracting Officer or his representative. Condition survey cross-sections shall be taken on 50-foot stations and extend 100 feet beyond both toes of the "Sub-Core" Rock bases. Soundings shall be obtained at 25-foot intervals. The cross-sections shall be oriented 90 degrees to the centerline of the breakwaters. Corrective action regarding placement method shall be taken at no cost to the Government if the survey indicates rock placement does not comply with specifications. A minimum of 3 subsequent condition surveys shall be performed in addition to the confirmation survey. Subsequent surveys shall be performed after the placement of each 10-foot lift as directed by the Contracting Officer or his representative. Cross-sections for the

condition surveys shall be on 50-foot stations and extend 100 feet beyond both toes of the toes of the "sub-Core" Rock bases. Soundings shall be obtained at 20-foot intervals. The cross-sections of the condition surveys shall be oriented at 90 degrees to the centerline of breakwaters. Confirmation and subsequent condition surveys may be performed by the contractor provided that the survey accuracy and worker qualification requirements of SECTION 01016 SPECIAL ITEMS (CIVIL WORKS) are met.

3.7 APPENDICIES

APPENDIX A - Letters of Agreement
APPENDIX B - Guidance for Quarry Development Plan
APPENDIX C - NPD Testing Methods

-- End of Section --

**APPENDIX A
LETTERS OF AGREEMENT WITH THE
STATE OF ALASKA
AND
U.S. FISH AND WILDLIFE SERVICE**

LETTER OF AGREEMENT
BETWEEN THE
ALASKA GOVERNOR'S OFFICE, DIVISION OF GOVERNMENTAL COORDINATION
AND THE
U.S. ARMY CORPS OF ENGINEERS, ALASKA DISTRICT
FOR
QUARRY SITE EVALUATION

This agreement provides guidance and establishes procedures for ensuring the consistency with the Alaska Coastal Management Program of quarry sites for Civil Works Projects administered by the U.S. Army Corps of Engineers (COE) that are located within or directly affect the state's coastal zone.

GENERAL:

The U.S. Army COE, Alaska District, will require a construction contractor to select a quarry site to provide rock necessary for construction of water resources projects and will not specify a quarry site in its Plans and Specifications. All permits and/or easements will be the responsibility of the contractor and the contractor will not be allowed to proceed with quarry site development until all permits and/or easements and the necessary ACMP consistency determination have been obtained.

The Division of Governmental Coordination (DGC) will coordinate the state's review of the contractor's selection for consistency with the Alaska Coastal Management Program (ACMP). This Letter of Agreement (LOA) allows for an appropriate consistency review of the quarry site, once it is selected by the contractor, as a direct federal action as provided by Section 307 of the federal Coastal Zone Management Act. The COE is responsible for implementing the terms of this LOA and for participating in consistency reviews, as necessary.

WORK REQUIRED DURING THE PROJECT STUDY PHASE:

The National Environmental Policy Act (NEPA) documentation and associated ACMP project consistency review will assume that the construction contractor will use an existing quarry site. The environmental assessment (EA) or environmental impact statement (EIS) will assess the impacts associated with quarry operations of a "generic existing quarry site" and will identify appropriate impact mitigation measures.

The State of Alaska, DGC will conduct a consistency review for a "generic existing quarry site" at the time it reviews the associated water resources project, and will render a conclusive coastal consistency determination which will identify alternative measures (reflected as stipulations) necessary to ensure that the generic existing quarry site and project are consistent to the maximum extent practicable with the ACMP.

The Quarry and Environmental portions of the Plans and Specifications (bidding document) will inform the contractor of its responsibilities whether he or she selects an existing quarry site or opens a new quarry and will also advise them of the review requirements agreed to in this LOA. The DGC will be furnished with a copy of the Plans and Specifications.

WORK REQUIRED AFTER THE BID AWARD:

The COE will advise the contractor of the requirements outlined in the Plans and Specifications. The contractor will be required to submit to the COE a Quarry Development Plan including the exact location of the quarry site. Before the COE gives approval to proceed with quarry site development, the appropriate ACMP approval must be obtained.

If the contractor chooses an existing quarry:

Concurrent with its review of the contractor's submittal, the COE will notify DGC in writing of the contractor's quarry site selection and provide a copy of the Quarry Development Plan to DGC. In addition, except for situations described in (a) below, the contractor will provide a Coastal Project Questionnaire to DGC for review. Depending on the site selected, the following requirements apply.

- a) No review by DGC will be required if:
 - 1) a contractor purchases the rock necessary for a project from an operating commercial quarry site; or
 - 2) the quarry site from which the contractor proposes to obtain the necessary rock is located out of state, outside of the coastal zone, or does not directly affect the coastal zone.
- b) DGC will require not more than 15 days to review and comment on the selection and operation if a contractor proposes to use, without modifications, a quarry site, which has previously been found consistent with the ACMP.
- c) DGC will conduct a 30-day consistency review of the proposal, as per 6 AAC 50, if a contractor proposes to use an existing quarry site:
 - 1) with modifications, (e.g. changes to previously approved site boundaries, volumes to be removed, or other terms or conditions); or

- 2) that has not previously undergone a consistency review.

The contractor must submit to DGC all appropriate permit applications that apply to the quarry site.

If the construction contractor chooses a new quarry site (including sites that have been reclaimed):

1. The COE will notify the contractor in writing that the NEPA process has been reopened and that an ACMP consistency review is required for sites located within or directly affecting the coastal zone.
2. For those sites which require coastal consistency review, the COE will provide a copy of the notification letter, the Quarry Development Plan, and the exact location of the proposed quarry to DGC. All appropriate permit applications and a coastal project questionnaire will be submitted to DGC by the contractor.
3. The COE will prepare a NEPA document, either an EA or an EIS, covering the environmental impacts of the contractor's proposed new quarry site. DGC will coordinate the state's review of this document. Compliance with the procedural requirements of NEPA by the COE does not relieve the contractor from responsibility for obtaining necessary permits and/or easements for the proposed quarry.
4. DGC will conduct a 50-day consistency review of the proposal, as per 6 AAC 50. DGC will provide the COE the state's conclusive consistency determination for the new quarry site.

IMPLEMENTATION:

As a result of the procedures outlined in this LOA, the state and COE may agree to alternative measures (reflected as stipulations in the COE approval of the Quarry Development Plan, the conclusive consistency determination, and on State permits, if required) that will apply to the quarry operation. Where State permits are not required, the COE is responsible for monitoring compliance with these stipulations and for enforcing them during operations, as necessary.

If the quarry site stipulations needed to ensure consistency with the ACMP are not met, or if the terms and procedures outlined in the LOA are not followed, the DGC may revoke the consistency determination for the quarry site.

EFFECTIVE DATE:

This agreement takes effect upon the date of the last signature below and will continue in effect until modified or revoked by agreement of both parties, or revoked by either party alone upon two months written notice.

William W. Kakel 25 JUN 90
William W. Kakel Date
Colonel, Corps of Engineers
District Engineer

Robert L. Grogan 6/11
Robert L. Grogan Date
Director
Division of Governmental
Coordination

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LETTER OF AGREEMENT
BETWEEN THE
U.S. FISH AND WILDLIFE SERVICE
AND THE
U.S. ARMY ENGINEER DISTRICT, ALASKA
FOR
QUARRY SITE EVALUATION

This agreement provides guidance and establishes procedures for assessing the environmental impacts associated with the selection and operation of quarry sites for Civil Works Projects.

GENERAL:

The U.S. Army Engineer District, Alaska will allow the construction contractor to select a quarry site to provide specific rock necessary for construction of water resources projects.

WORK REQUIRED DURING THE PROJECT STUDY PHASE:

The National Environmental Policy Act (NEPA) documentation will reflect that the construction contractor will use an existing quarry site. The environmental assessment or impact statement and Coordination Act report will assess the impacts associated with quarry operations of a generic existing site. The Quarry and Environmental portions of the Plans and Specifications (bidding document) will inform the contractor of his responsibilities in case he chooses to open a new site. The U.S. Fish and Wildlife Service (FWS) will be furnished with a copy of the Plans and Specifications.

WORK REQUIRED AFTER THE BID AWARD:

A representative of the Alaska District Environmental Resources Section (PL-ER) will attend the pre-construction conference, advise the contractor of the NEPA procedure, and reiterate the requirements outlined in the Plans and Specifications. The contractor will be required to submit a Quarry Operation Plan (which includes the exact location of the quarry site) for review and government approval.

If the contractor chooses an existing quarry: The PL-ER representative will advise FWS of the selection and will advise the contractor of any permits which may be required or other stipulations associated with the operation. No further NEPA documentation or Fish and Wildlife Coordination Act activities will be required.

If the construction contractor chooses a new quarry site:

1. The PL-ER representative will contact FWS and advise that the NEPA process has been reopened.

2. The PL-ER representative will consult with FWS and other state and Federal environmental agencies, provide the exact location of the proposed quarry, and obtain the agencies' comments. Within 10 working days, the PL-ER representative will meet with the contracting officer's representative (COR) and contractor to advise whether the site is:

- a. acceptable;
- b. acceptable with stipulations;
- c. no decision until further data are gathered; or
- d. unacceptable.

If the site appears to be acceptable, the PL-ER representative will provide the contractor through the COR the mitigation stipulations, if any. If further information is required in order to make a decision, the COR will provide the contractor an estimate of time required for data collection.

3. The Alaska District and FWS will enter into a transfer fund agreement as mandated in the Fish and Wildlife Coordination Act only if further documentation is required. The normal Scope of Work process will be used.

4. Upon completion of the data gathering and documentation, the FWS will submit an amended Coordination Act report with mitigation recommendations to the Alaska District. The Alaska District will give a written response to the recommendations of the FWS. The Alaska District will either write an environmental assessment or supplement an existing impact statement, or write a new impact statement for all new quarry site selection(s).

UNRESOLVED PROBLEMS:

In carrying out the above agreement, every effort will be made to resolve all problems in the following order:

FWS and Alaska District project biologist level.

FWS Field Office Supervisor and Alaska District Planning Branch Chief level.

Assistant Alaska Regional Director for Habitat and Alaska District Engineering Division Chief.

Alaska Regional Director and Alaska District Engineer.

If a solution still cannot be achieved, the problem should be referred to the North Pacific Division and the Alaska Regional Director. Only unresolved problems that threaten the two agencies' abilities to carry out their mandated responsibilities should be referred to the Director of Civil Works, U.S. Army Corps of Engineers, and Director, Fish and Wildlife Service for resolution. Any referrals to the Washington level shall document the specific nature of the problems and efforts at the field level to resolve the disagreements.

William W. Kakel 29 MAR 89
William W. Kakel Date
Colonel, Corps of Engineers
District Engineer

Walter O. Stieglitz 4/21/89
Walter O. Stieglitz Date
Regional Director
U.S. Fish and Wildlife Service

APPENDIX B
QUARRY DEVELOPMENT PLAN
REQUIREMENTS

1.1 Quarry Development Plan. Prior to the development of any quarry, the Contractor shall submit its plan for quarry development and operation to the Contracting Officer for acceptance.

The Quarry Development Plan shall include limits of construction, disposal of quarry waste, necessary access roads and traffic routes, quarry rock stockpile area(s), and other material stockpile area(s) to be used for quarry restoration. Receipt of the plan by the Contracting Officer does not limit the Contractor's responsibility for otherwise complying with the contract requirements. All work shall be contained within the construction limits as designated in the submitted plan. The Contractor shall develop the quarry in a manner that will provide safe and efficient extraction of rock and accommodate the restoration as required. The development plan shall address all requirements of the following subparagraphs.

1.1.1 Show location of access roads, structures, and staging areas, including the upgrading or replacement of any existing access roads.

1.1.2 Include proposed blasting plan.

1.1.3 Show fuel storage locations.

1.1.4 Show location of overburden stockpiles (toe must be above maximum high tide elevation).

1.1.5 Show rock processing areas and waste stockpile areas (toe must be above maximum high tide elevation). Note: Waste stockpiles shall be located to accommodate restoration, if restoration is required.

1.1.6 Show any areas where grubbing material will be buried (toe must be above maximum high tide elevation).

1.1.7 Excavation Plan shall be prepared showing all proposed cut slopes and grades, and the final estimated configuration of the quarry at the end of the work, including areas to be cleared.

1.1.8 Quarry Operation Plan shall be prepared to include information on the following subjects:

(a) Method of rock removal (i.e., drilling and blasting or mechanical excavation).

(b) Method and plan for barge loading, if applicable.

(c) Method, schedule, and plan for burning (if permitted) and disposal of waste.

(d) Method and plan for clearing area before blasting.

1.1.9 Work at the quarry shall comply with the EPA National Pollutant Discharge Elimination System. A storm water pollution prevention plan for the quarry site and notice of intent shall be prepared and submitted to the Contracting Officer per section 01016.

1.2 Work Area Limits. The Contractor shall keep its work areas as small as possible. If the rock quantity obtained from within the area shown in the Quarry Development Plan is insufficient, the Contractor shall request relocation of the boundary at least two weeks in advance of need for additional quarry area.

1.3 Quarry Waste Disposal. No overburden, soil, waste material, debris, vegetation, or fill material (with the exception of a barge loading ramp, if required) shall be placed at an elevation lower than the maximum high tide level or in other waters of the U.S.

All waste areas shall be covered with a minimum of 6 inches of organic overburden if any stockpile material remains for use. The maximum finished slope shall be 2 horizontal to 1 vertical, and the minimum slope shall be 4 horizontal to 1 vertical. Tree roots or limbs shall not be left sticking out of waste area(s). The final grade and appearance of the waste area shall be a smoothly contoured land form, if required.

1.4 Quarry Stockpiling. The Contractor shall identify all stockpile areas on the Quarry Development Plan. The Contractor shall save and protect all overburden material for quarry restoration purposes. Any quantities of overburden lost by negligence shall be replaced from an approved source by the Contractor.

1.5 Cleanup of Quarry Area(s). Unless otherwise specified, upon completion of rock production, all areas which have been utilized by the Contractor shall be cleared of all debris and graded smooth to match existing grade. No waste piles of any type will be permitted to remain, except for areas that are designated as waste areas in the Quarry Development Plan.

1.6 Quarry Restoration Plan. A general quarry restoration plan (for (a) new quarry site(s)) shall be submitted to the Contracting Officer for approval prior to the use of the quarry. A detailed quarry restoration plan shall be submitted for approval once the rock production operations have been completed. Restoration of the quarry shall be accomplished in a manner to produce a natural appearing condition. All disturbed areas, including refuse remaining from other activities prior to this contract, shall be included in the restoration plan. The quarry restoration plan shall be presented on drawings, and show finished elevations and grades of all features. A restoration plan will not be required if the quarry is to remain operational beyond this contract.

APPENDIX C
NPD TESTING METHODS

Freezing and Thawing – The test sample, consisting of about 250 pounds of pieces passing the 2 inch sieve and retained on the 1-1/2 inch sieve, will be prepared by jaw crushing or hand chipping. All sharp edges will be chipped off and only pieces approximately cubical in shape will be used. The original dry weight of pieces selected for the freeze-thaw test will be computed by determining moisture content of room dry rock from representative surplus or undersized pieces.

$$\text{Dry weight of pieces selected for freeze-thaw} = \frac{\text{WeightRoomDry}}{1 \div \frac{MC}{100}}$$

(MC = moisture content in %)

Specimens will be immersed in water for 24 hours prior to start of test. Sample will then be placed in a pan approximately 15 inches x 9-1/2 inches x 2-1/4 inches and the pan filled from 1/4 inch to 1/2 inch depth of water. Sample in pan will be subjected to freezing and thawing in freeze-thaw apparatus described in CRD-C 20-94, “Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing” (ASTM C 666-92). Freezing and thawing will be at the rate of 12 cycles per day, each cycle consisting of approximately one hour at $0 \pm 2^{\circ}\text{F}$ and one hour at $40 \pm 2^{\circ}\text{F}$. At the end of the test, the samples will be washed, dried, sieved over the 1-1/2 inch sieve and weighed. Tests shall consist of 100 cycles unless other wise specified. The percent loss will be computed based on the original dry weight. Observations of appearance of each piece with comment as to apparent soundness, cracking, etc., will be reported. Photographs of the sample at the end of the test or during the test will be made when significant cracking, flaking, crumbling, or disintegration has taken place.

Wetting & Drying – The test sample will be about 250 pounds of 2 inch to 1-1/2 inch sized particles prepared as specified above for freezing and thawing tests. The test sample will be oven-dried and weighed, then soaked for 24 hours prior to starting tests. Testing will consist of soaking for 3 hours in tap water at approximately 60°F , and drying for 3 hours with an infrared heat lamp so that the surface temperature of rocks will reach 165°F . Upon completion of the test, samples will be oven-dried, screened over 1-1/2 inch sieve and weighed. Percent loss will be based on original dry weight. Significant changes in appearance such as cracking, splitting, etc., will be noted.