

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO EXPAND BARGE DOCK AND ADD MOORING DOLPHINS

DATUM: 0.0' MLLW

PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

VICINITY MAP AND PROJECT LOCATION

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

SHAKMANOF COVE QUARRY MODIFICATION
POA-2010-496-M3

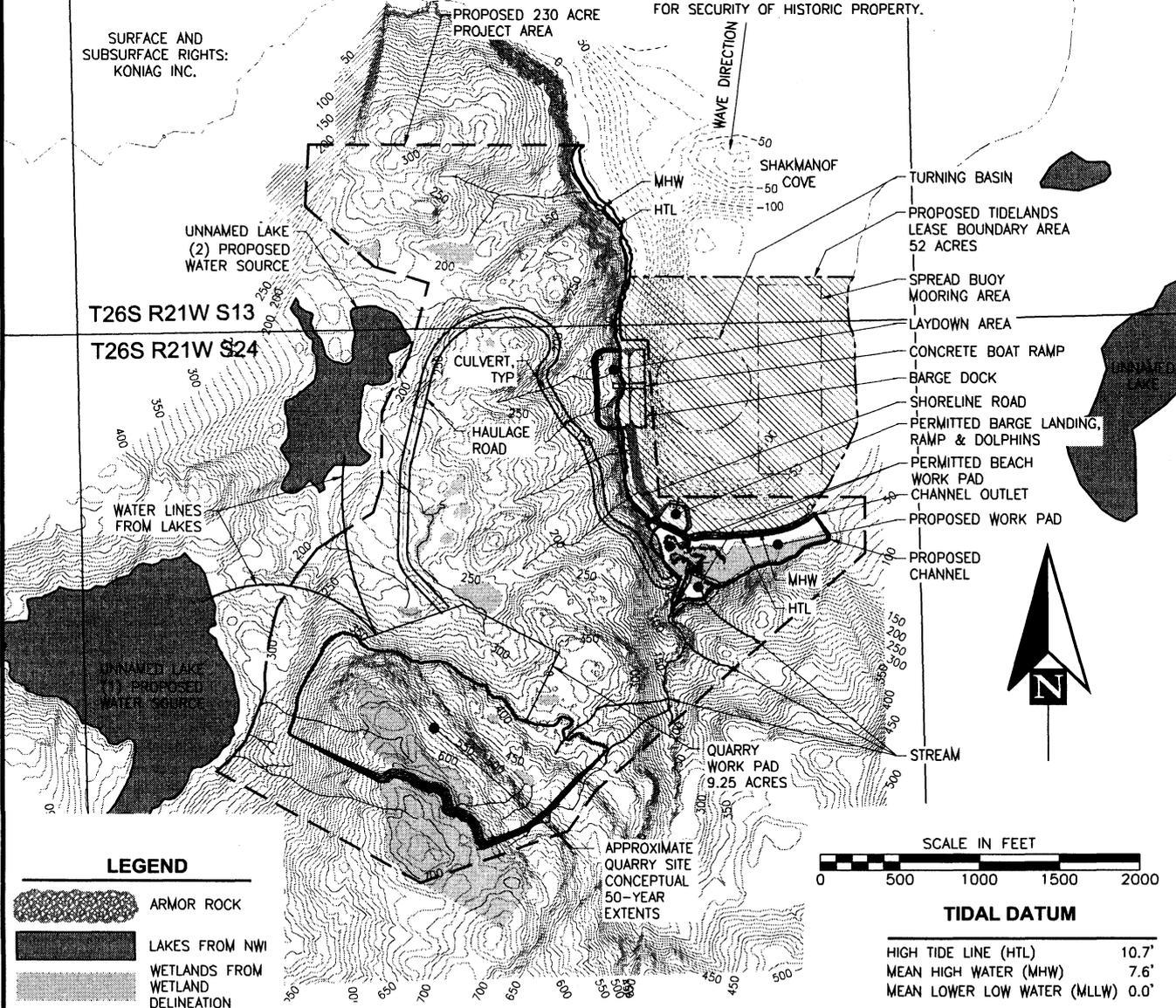
ON: KODIAK ISLAND, AK
AT: SOUTH SHORE OF SHAKMANOF COVE

APRIL 2014 SHEET **1 of 5**

SFP 1751
ADL 226897
SET NET

NOTE:
ARCHEOLOGICAL SITE
KOD-00355 AND KOD-01118 ARE NEAR THE PROJECT
SITE LOCATION, BUT ARE NOT WITHIN PROJECT AREA.
THE LOCATION OF THESE SITES IS NOT DISCLOSED
FOR SECURITY OF HISTORIC PROPERTY.

SURFACE AND
SUBSURFACE RIGHTS:
KONIAG INC.



PROPOSED ACTIVITY: MODIFY
EXISTING PERMIT TO EXPAND
BARGE DOCK AND ADD
MOORING DOLPHINS

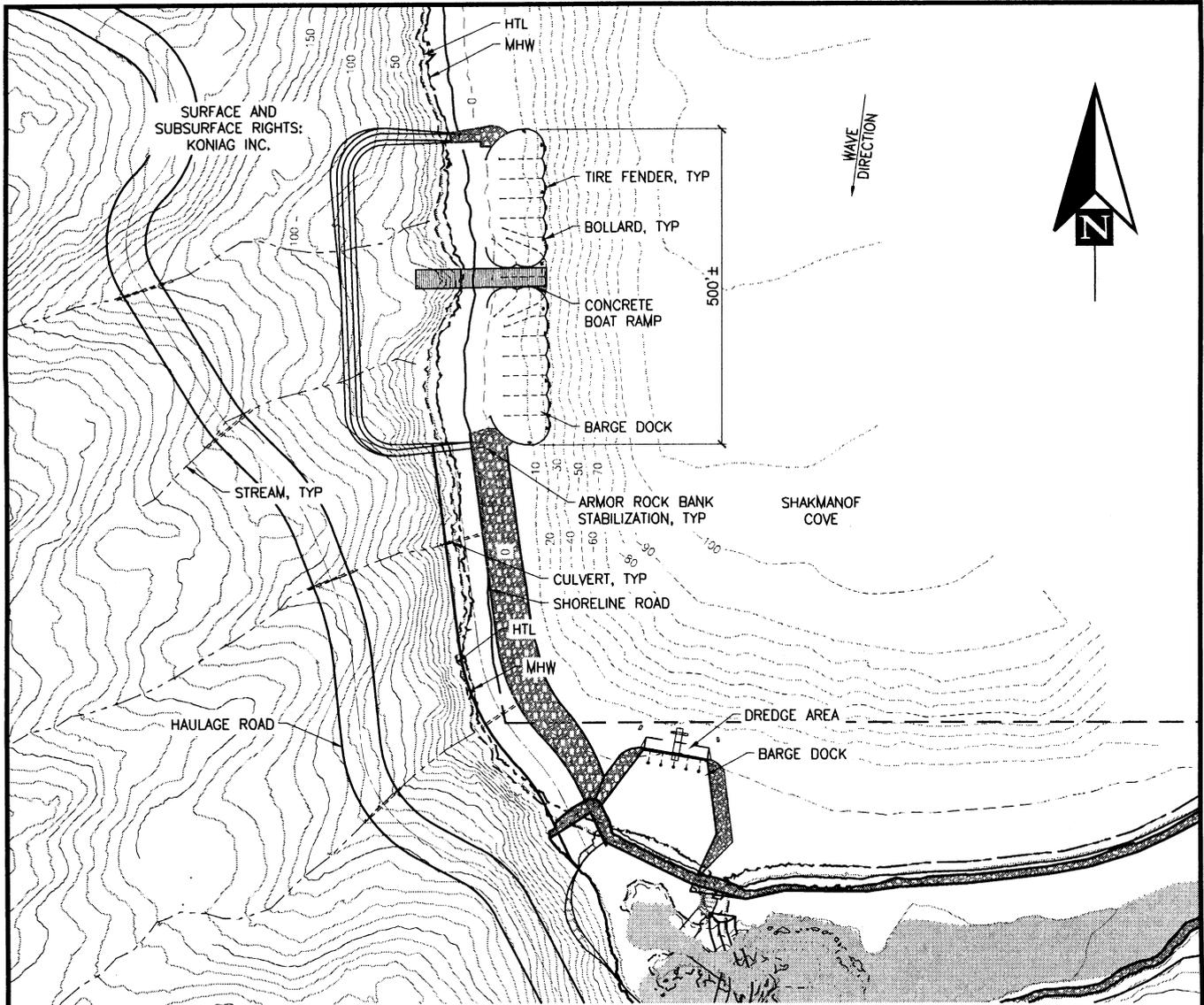
DATUM: 0.0' MLLW
PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

**AREA PLAN
PREVIOUSLY PERMITTED
DEVELOPMENT
#POA-2010-496-M1**

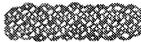
KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

**SHAKMANOF COVE
QUARRY
MODIFICATION
POA-2010-496-M3**

ON: KODIAK ISLAND, AK
AT: SOUTH SHORE OF
SHAKMANOF COVE



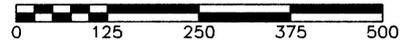
LEGEND

-  ARMOR ROCK
-  WETLANDS FROM WETLAND DELINEATION
-  STREAM

TIDAL DATUM

HIGH TIDE LINE (HTL)	10.7'
MEAN HIGH WATER (MHW)	7.6'
MEAN LOWER LOW WATER (MLLW)	0.0'

SCALE IN FEET



PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO EXPAND BARGE DOCK AND ADD MOORING DOLPHINS

DATUM: 0.0' MLLW

PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

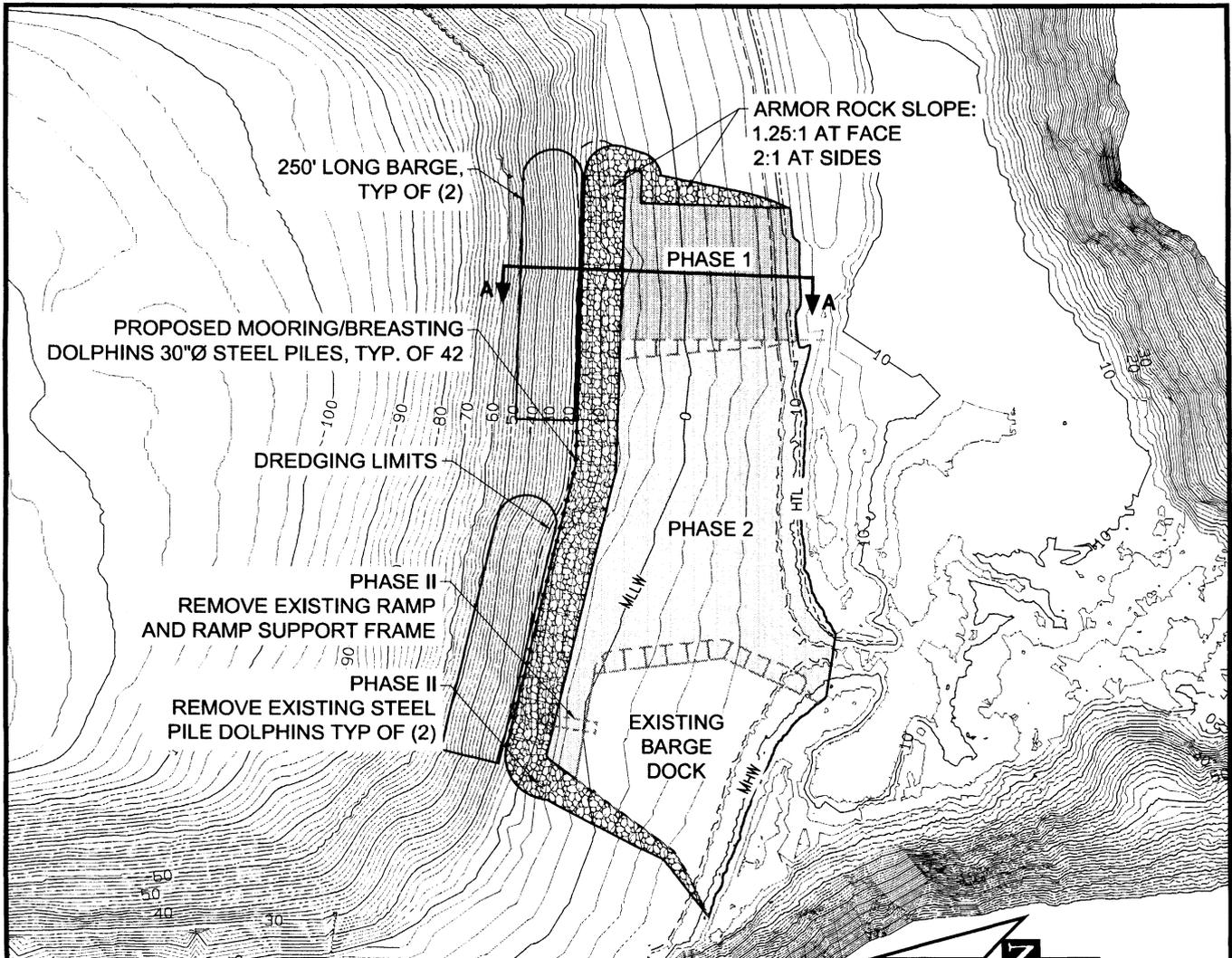
**SITE PLAN
PREVIOUSLY PERMITTED
BARGE DOCKS &
SHORELINE ROAD
#POA-2010-496-M2**

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

**SHAKMANOF COVE
QUARRY
MODIFICATION
POA-2010-496-M3**

ON: KODIAK ISLAND, AK
AT: SOUTH SHORE OF SHAKMANOF COVE

APRIL 2014 SHEET **3 of 5**



QUANTITIES

ITEM	PHASE 1	PHASE 2	TOTAL
TOTAL BARGE DOCK LENGTH	-	-	650 FT
TOTAL FILL	10,900 CY	24,900 CY	35,800 CY
TOTAL SURFACE AREA	0.87 ACRES	2.25 ACRES	3.12 ACRES
FILL BELOW HTL	9,600 CY	22,700 CY	32,300 CY
FILL BELOW MHW	7,500 CY	15,500 CY	23,000 CY
SURFACE AREA HTL	0.76 ACRES	1.96 ACRES	2.72 ACRES
SURFACE AREA MHW	0.53 ACRES	1.57 ACRES	2.10 ACRES
DREDGING	3,000 CY	6,000 CY	9,000 CY



TIDAL DATUM

HIGH TIDE LINE (HTL)	10.7'
MEAN HIGH WATER (MHW)	7.6'
MEAN LOWER LOW WATER (MLLW)	0.0'

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO EXPAND BARGE DOCK AND ADD MOORING DOLPHINS

DATUM: 0.0' MLLW

PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

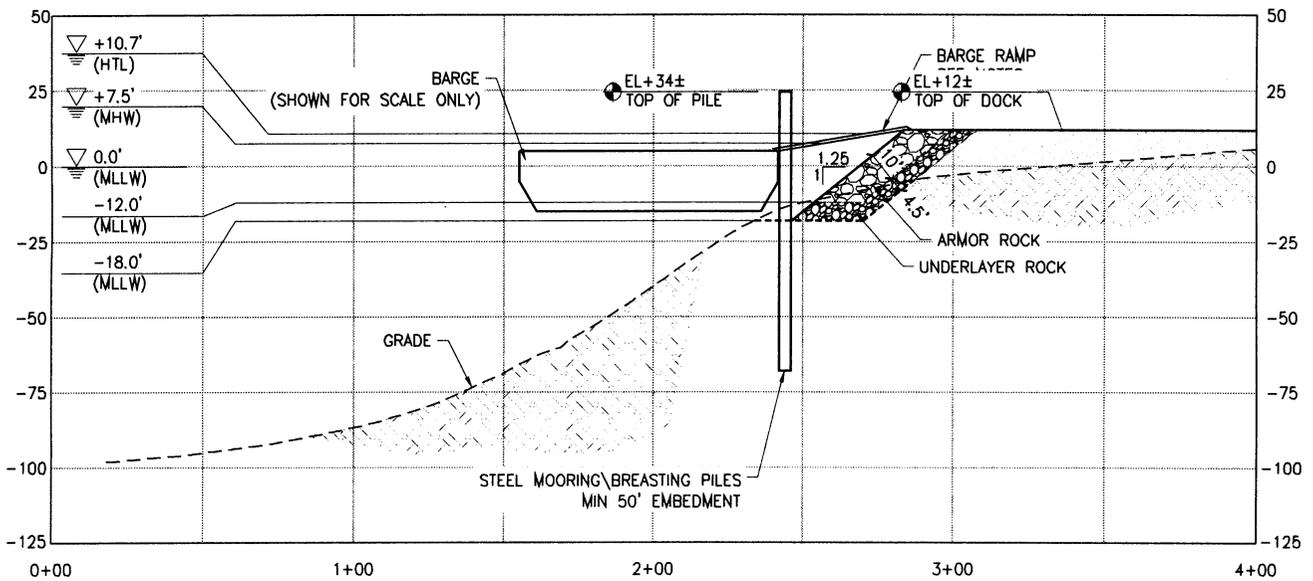
**SITE PLAN
PROPOSED BARGE
LANDING AND DOLPHINS**

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

**SHAKMANOF COVE
QUARRY
MODIFICATION
POA-2010-496-M3**

ON: KODIAK ISLAND, AK
AT: SOUTH SHORE OF SHAKMANOF COVE

APRIL 2014 SHEET **4 of 5**



NOTES:
RAMP IS A FEATURE OF THE BARGE

ARMOR ROCK:
W_{max} = 22 TONS
W₅₀ = 8-12 TONS
W_{min} = 5 TONS

UNDERLAYER ROCK:
W_{max} = 5000 lbs
W₅₀ = 1500 - 2500 lbs
W_{min} = 500 lbs

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DATUM: 0.0' MLLW

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**SECTION A-A
PROPOSED BARGE
LANDING AND DOLPHINS**

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

**SHAKMANOF COVE
QUARRY
MODIFICATION
POA-2010-496-M3**

ON: KODIAK ISLAND, AK
AT: SOUTH SHORE OF
SHAKMANOF COVE

APRIL 2014 SHEET **5** of **5**



REPLY TO
ATTENTION OF:

**DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
REGULATORY DIVISION
P.O. BOX 6898
JBER, ALASKA 99506-0898**

AUG 19 2011

Regulatory Division
POA-2010-496

Koniag, Incorporated
Attention: Mr. Charlie C. Powers
194 Alimaq Drive
Kodiak, Alaska 99615

Dear Mr. Powers:

Enclosed is the signed Department of the Army permit, file number POA-2010-496, Shakmanof Cove, which authorizes construction of a sheet pile bulkhead fill dock and temporary barge landing in Shakmanof Cove to service an adjacent 210-acre upland rock quarry. The project site is located within Sections 13 and 24, T. 26 S., R. 21 W., Seward Meridian; USGS Quad Map KODIAK D-2; Latitude 57.9159° N., Longitude -152.6073° W.; located approximately four miles southwest of the community of Ouzinkie, near Kodiak, Alaska. Also enclosed is a Notice of Authorization which should be posted in a prominent location near the authorized work.

If changes to the plans or location of the work are necessary for any reason, plans must be submitted to us immediately. Federal law requires approval of any changes before construction begins.

Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

Please contact me at (907) 753-2796, toll free from within Alaska at (800) 478-2712, by email at Steve.D.Lindamood@usace.army.mil or by mail at the address above, ATTN: CEPOA-RD-S, if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Lindamood", written over a horizontal line.

Steve Lindamood
Regulatory Specialist

Enclosures

DEPARTMENT OF THE ARMY PERMIT

Permittee: Koniag, Incorporated

Permit No.: POA-2010-496, Shakmanof Cove

Issuing Office: U.S. Army Engineer District, Alaska

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Construct a sheet pile bulkhead fill dock in Shakmanof Cove to service an adjacent 210-acre upland rock quarry. Development activities for the quarry that impact waters of the U.S., including wetlands, include:

- 1) Construction a temporary barge landing
- 2) Temporary excavation (dredging) to accommodate barge traffic.
- 3) Construction of a temporary beach work pad adjacent to the temporary barge landing.
- 4) Quarry development

	Project Total		Below HTL				In Wetlands	
	Area (acres)	Fill (cy)	Area of fill (acres)	Area of Excavation (acres)	Volume of fill (cy)	Volume of Excavation (cy)	Area (acres)	Area of Excavation (acres)
Temporary Barge Landing, adjacent Beach Work Pad and Dredging	0.7	8,600	0.6	0.04	7,300	400	1.33	
Shoreline Roadway (740' length)	0.53	2,215						
Haulage Roadway (4525' length)	6.54	47,915						
Permanent Fill Dock (500' length)	3.8	68,000	2.0		61,300	25,000		
Permanent Quarry Area (31.5 acres) and Quarry Workpad (9.25 acres)	40.75						5.91	
TOTAL	52.32	126,730	2.6	0.04	68,600	25,400	7.24	

All work will be performed in accordance with the attached plan, sheets 1-14, dated May 3, 2011.

Project Location: The project is located within Sections 13 and 24, T. 26 S., R. 21 W., Seward Meridian; USGS Quad Map KODIAK D-2; Latitude 57.9159° N., Longitude -152.6073° W.; located approximately four miles southwest of the community of Ouzinkie, near Kodiak, Alaska.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **August 31, 2016**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. As compensatory mitigation for unavoidable permanent impacts to aquatic resources, Koniag Incorporated, shall provide compensatory mitigation in the form of an in-lieu-fee to be paid to the Conservation Fund at a ratio of 2:1 for marine and estuarine waters and 1.5:1 for fresh waters and wetlands. Proof of this payment shall be provided to the Corps of Engineers, prior to beginning abt construction activities, at the following address:

Serena Sweet, Project Manager
U.S. Army Corps of Engineers (CEPOA-RD)
Post Office Box 6898
JBER, AK 99506-0898

2. Project boundaries shall be clearly identified in the field (e.g., staking, flagging, silt fencing, etc.) prior to site clearing and construction to ensure avoidance of impacts to waters of the U.S., including wetlands, beyond the project footprint. In no case may disturbance extend beyond the identified fill footprint without prior approval from the Corps of Engineers.
3. Natural drainage patterns shall be maintained using appropriate ditching, culverts, storm drain systems, and other measures, to the extent practicable, without introducing ponding or drying. Excessive ponding and/or dewatering of areas adjacent to fill areas shall indicate non-compliance with this condition.
4. If treated wood must be used, any wood that comes in contact with marine or aquatic environments should be treated with waterborne preservatives approved for use in aquatic and/or marine environments. Creosote may be used; however, must be applied by pressure injection using a method that prevents leaching (such as those approved by the Western Wood Preserves Institute).
5. Effective erosion control structures (i.e., silt fences) shall be installed and maintained before, during, and after construction to prevent erosion and the introduction of sediments and/or contaminants into adjacent waters of the U.S., including wetlands. These structures shall remain in place until all fills (including side slopes) or other disturbed areas subject to potential erosion have been permanently stabilized. Active sloughing, increased water turbidity and sediment in adjacent wetlands or waterways shall be evidence of insufficient stabilization.
6. All in-water work shall be conducted during low tidal stages. Low tidal stage is defined as a six hour period beginning three hours before low tide and ending three hours past low tide.

7. Fill material shall consist of clean fill, free of unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.), and free of toxic pollutants.
8. Heavy equipment working in wetlands or mudflats shall be placed on mats, or other measures must be taken to minimize soil disturbance.
9. Geotextile fabric shall be placed under temporary fills areas. Once construction is complete, the geotextile fabric and temporary fill areas shall be removed in their entirety and the affected areas returned to pre-construction elevations.
10. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the U.S.
11. You must install and maintain, at your expense, any safety lights and signals prescribed by the U.S. Coast Guard (USCG), through regulations or otherwise, on your authorized facilities. The USCG may be reached at the following address and telephone number: Commander (oan), 17th Coast Guard District, P.O. Box 25517, Juneau, Alaska 99802, (907) 463-2272.
12. The permittee understands and agrees that, if future operations by the U.S. require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the U.S. No claim shall be made against the U.S. on account of any such removal or alteration.

Any condition incorporated by reference into this permit by General Condition 5, remains a condition of this permit unless expressly modified or deleted, in writing, by the District Engineer or his authorized representative.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, State, or local authorization required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.



(PERMITTEE) AND TITLE
PRESIDENT & CEO

8/16/2011
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.



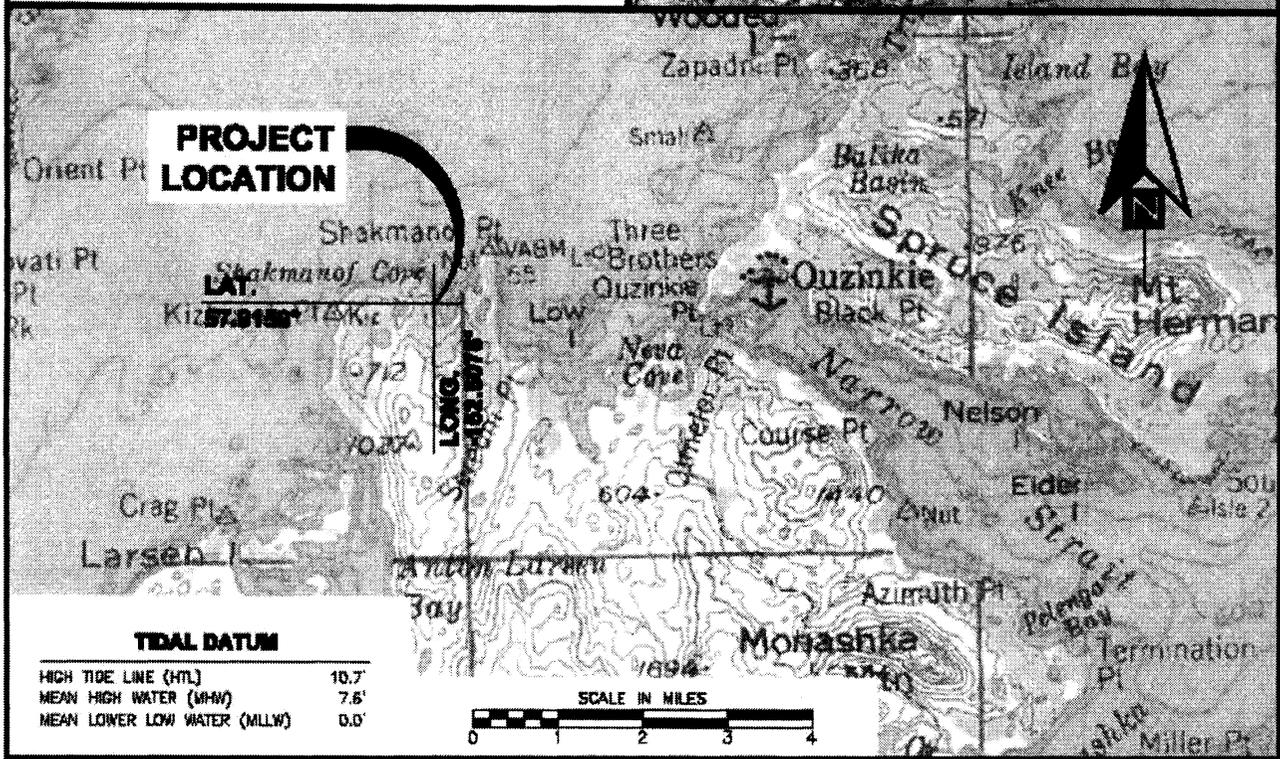
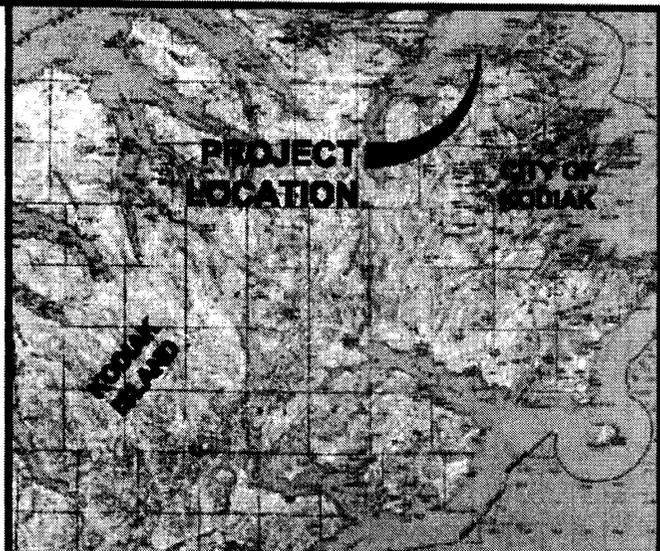
FOR (DISTRICT COMMANDER)
Colonel Reinhard W. Koenig
Serena Sweet, Project Manager
South Branch, Regulatory Division

8/19/11
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions have the transferee sign and date below.

(TRANSFEREE)

(DATE)



1:2010/05/015 Shakmanof Cove Quarry, Kodiak Island, Alaska, 99615, AK, 11

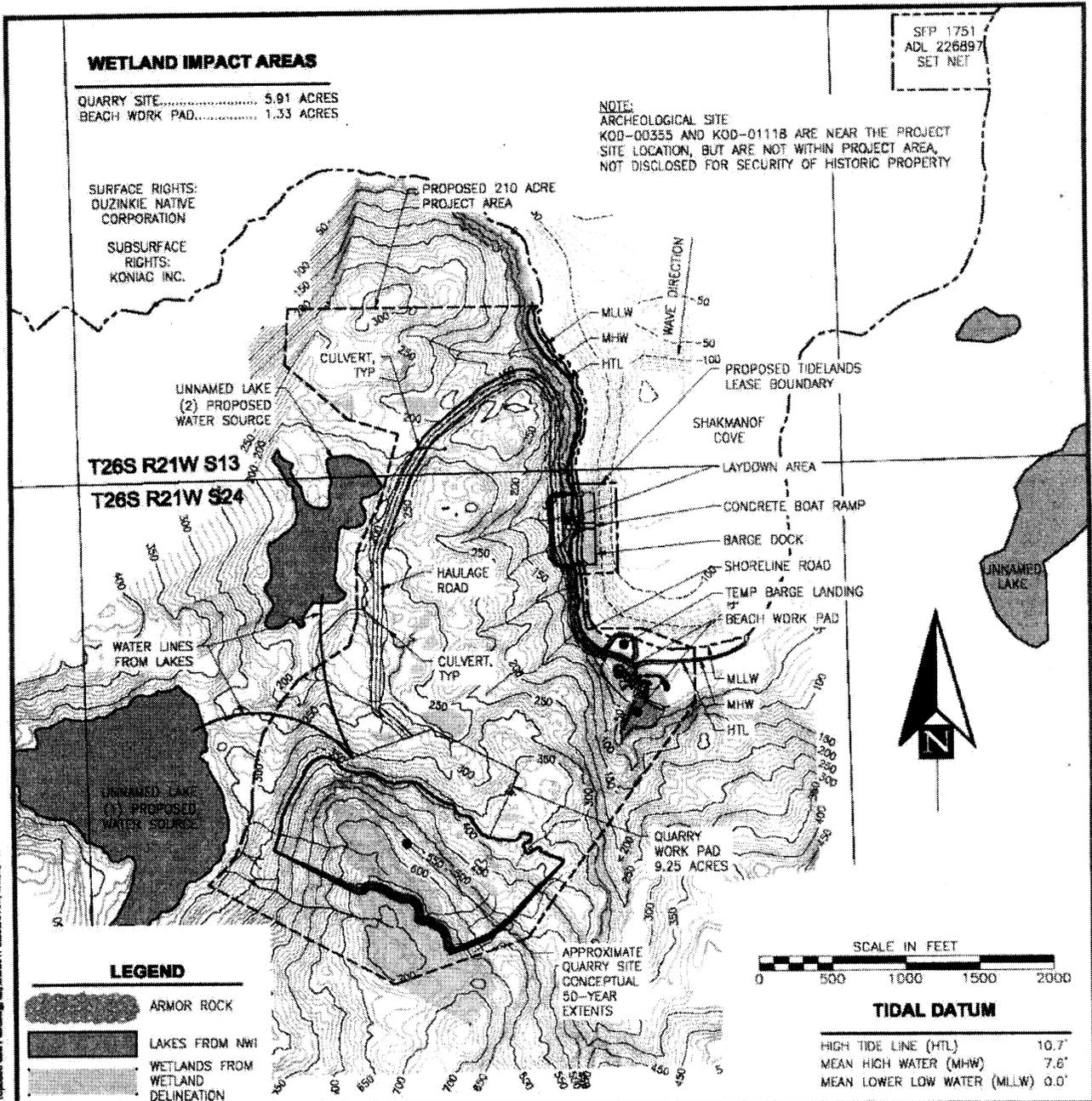
VICINITY MAP AND PROJECT LOCATION

SHAKMANOF COVE QUARRY

DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF SHAKMANOF COVE



WETLAND IMPACT AREAS

QUARRY SITE..... 5.91 ACRES
 BEACH WORK PAD..... 1.33 ACRES

NOTE:
 ARCHEOLOGICAL SITE
 KOD-00355 AND KOD-01118 ARE NEAR THE PROJECT
 SITE LOCATION, BUT ARE NOT WITHIN PROJECT AREA,
 NOT DISCLOSED FOR SECURITY OF HISTORIC PROPERTY

SURFACE RIGHTS:
 OUZINKIE NATIVE
 CORPORATION

SUBSURFACE
 RIGHTS:
 KONIAG INC.

PROPOSED 210 ACRE
 PROJECT AREA

UNNAMED LAKE
 (2) PROPOSED
 WATER SOURCE

T26S R21W S13

T26S R21W S24

WATER LINES
 FROM LAKES

UNNAMED LAKE
 (1) PROPOSED
 WATER SOURCE

LEGEND

- ARMOR ROCK
- LAKES FROM NWI
- WETLANDS FROM WETLAND DELINEATION

APPROXIMATE
 QUARRY SITE
 CONCEPTUAL
 50-YEAR
 EXTENTS



TIDAL DATUM

HIGH TIDE LINE (HTL) 10.7'
 MEAN HIGH WATER (MHW) 7.8'
 MEAN LOWER LOW WATER (MLLW) 0.0'

J:\2011\170118 Shikmanof Cove Quarry\5. Civil\Drawings\group permits\22 Proposed Site Plan.dwg, 02/09/2011 9:26:26 AM, ekmn, 1:1

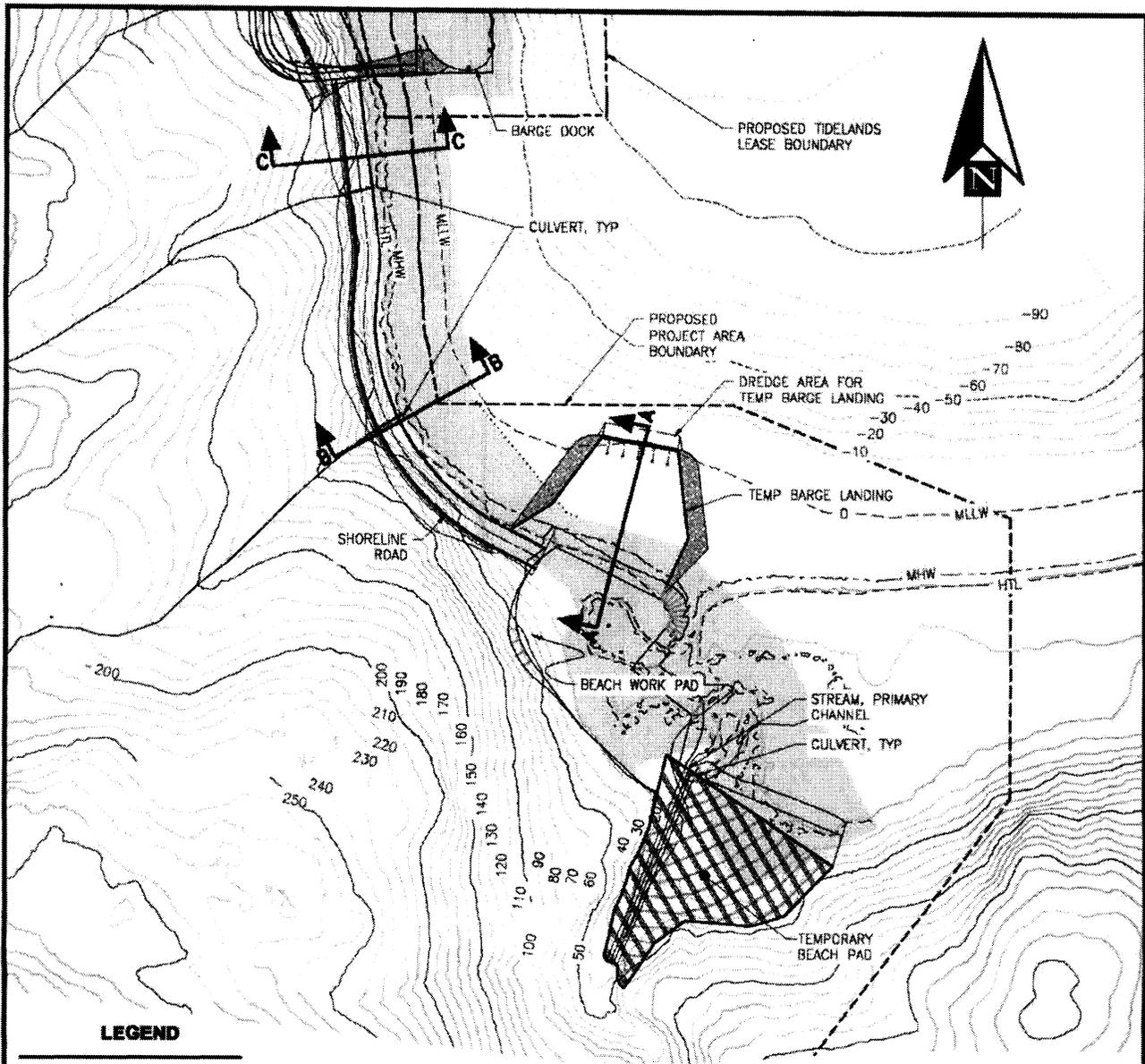
**PROPOSED
 SITE PLAN**

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

**SHAKMANOF COVE
 QUARRY**

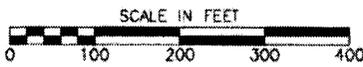
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 AT: WEST SHORE OF
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DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.



LEGEND

-  ARMOR ROCK
-  WETLANDS FROM WETLAND DELINEATION



TIDAL DATUM

HIGH TIDE LINE (HTL)	10.7'
MEAN HIGH WATER (MHW)	7.6'
MEAN LOWER LOW WATER (MLLW)	0.0'

**PROPOSED
TEMP BARGE LANDING
& BEACH WORK PAD
PLAN (1 OF 2)**

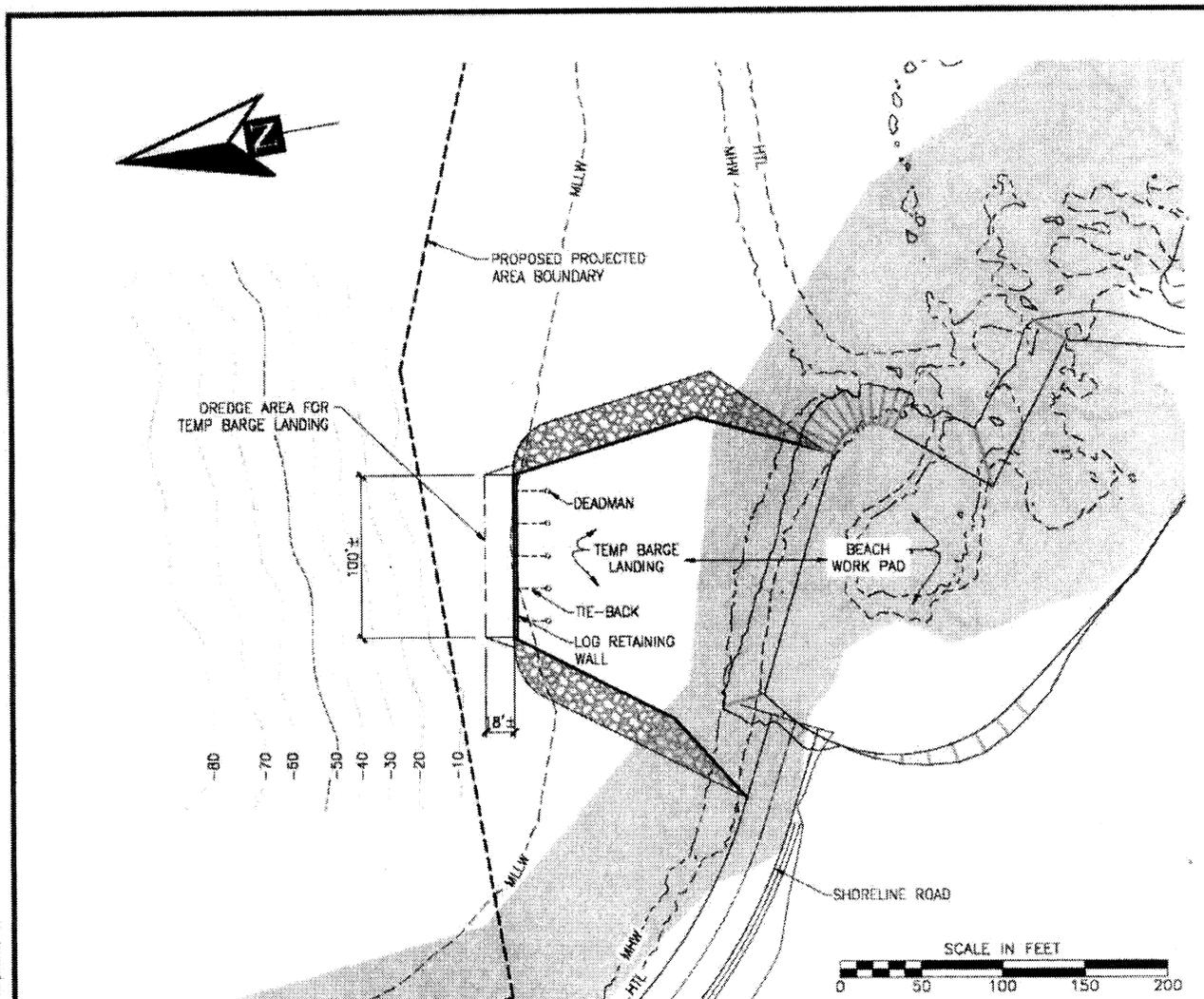
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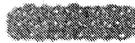
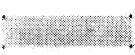
KONIAG INC
194 ALIMAQ DR
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ON: KODIAK ISLAND, AK
AT: WEST SHORE OF
SHAKMANOF COVE

5/3/11 SHEET **3** of **14**



LEGEND

-  ARMOR ROCK
-  WETLANDS FROM WETLAND DELINEATION

TEMP BARGE LANDING QUANTITIES

TOTAL FILL.....	8,600 CY
TOTAL SURFACE AREA.....	0.7 ACRES
FILL BELOW HTL.....	7,300 CY
FILL BELOW MHW.....	4,700 CY
SURFACE AREA BELOW HTL.....	0.6 ACRES
SURFACE AREA BELOW MHW.....	0.5 ACRES
DREDGING VOLUME BELOW HTL & MHW.....	400 CY
DEADMAN TO BE CONSTRUCTED WITH BUNDLES OF LOGS PLACED VERTICALLY	

TIDAL DATUM

HIGH TIDE LINE (HTL)	10.7'
MEAN HIGH WATER (MHW)	7.6'
MEAN LOWER LOW WATER (MLLW)	0.0'

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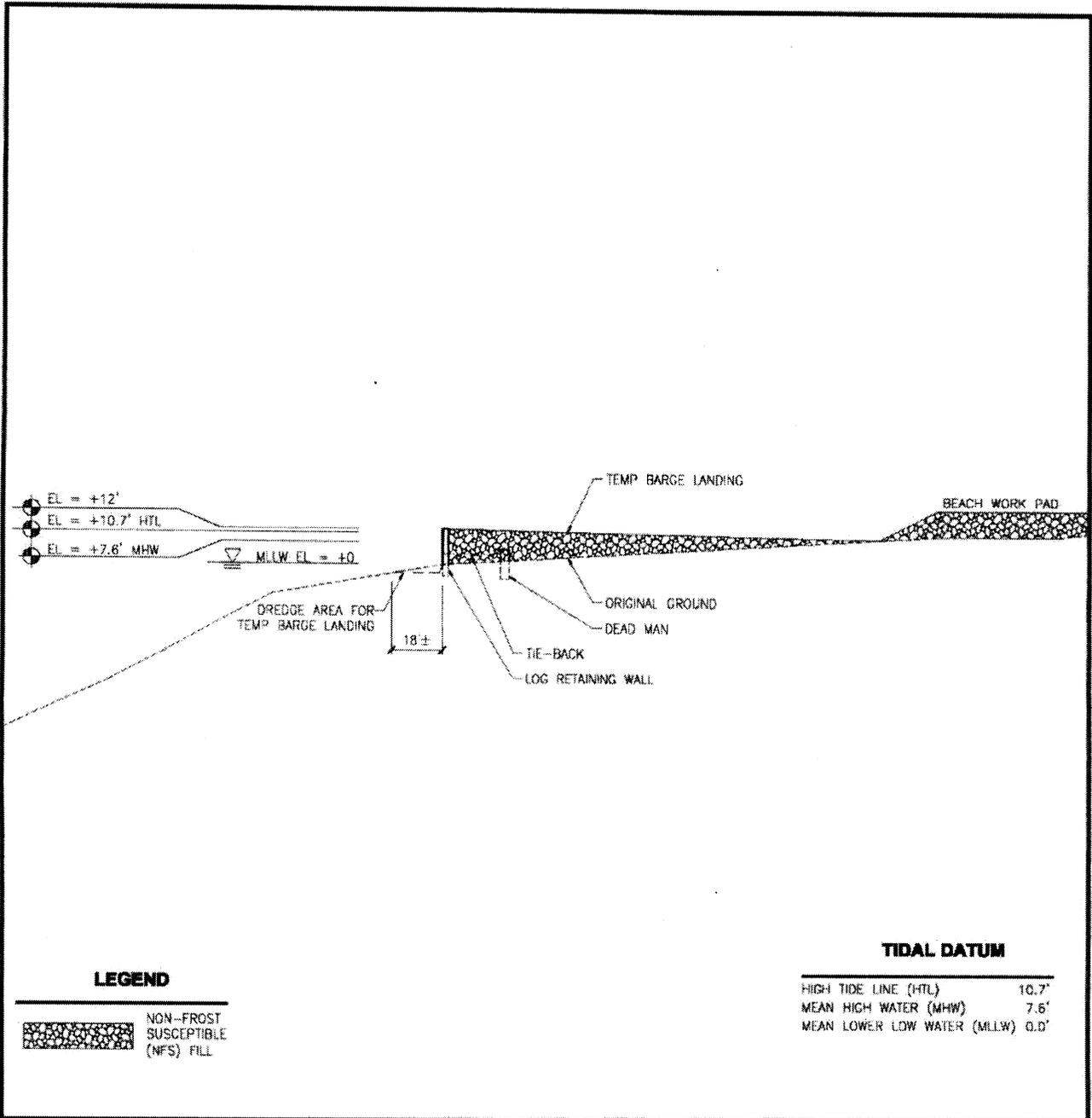
**PROPOSED
TEMP BARGE LANDING
& BEACH WORK PAD
PLAN (2 OF 2)**

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

**SHAKMANOF COVE
QUARRY**

ON: KODIAK ISLAND, AK
AT: WEST SHORE OF
SHAKMANOF COVE

DATUM: 0.0' MLLW
PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.



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DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

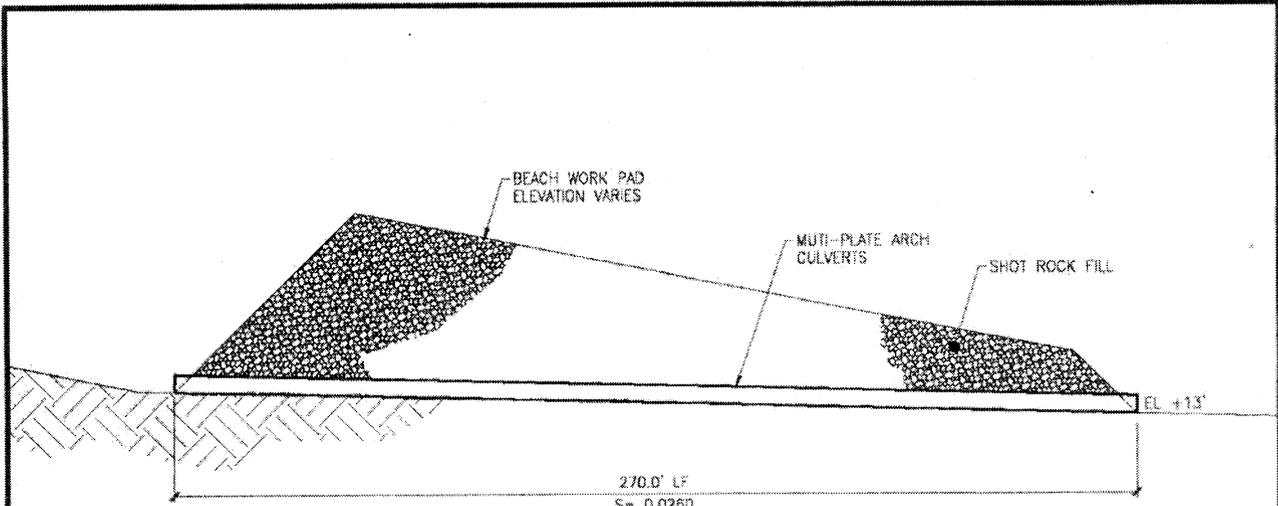
**PROPOSED TEMP
 BARGE LANDING
 SECTION A-A**

KONIAC INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

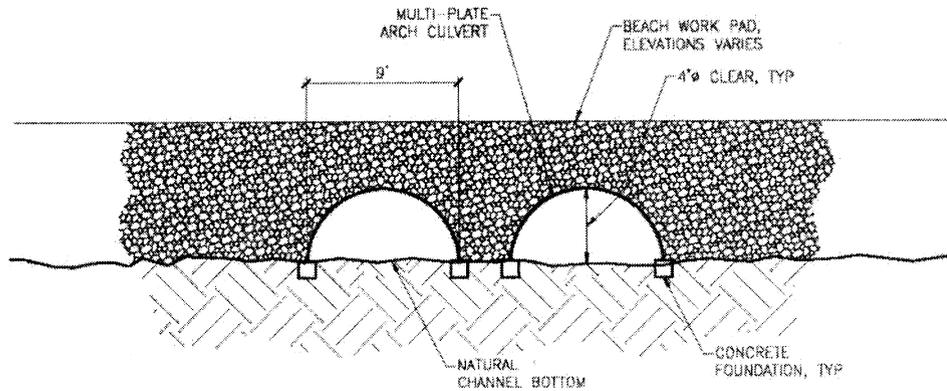
**SHAKMANOF COVE
 QUARRY**

ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF
 SHAKMANOF COVE

5/3/11 SHEET **5** of **14**



BEACH WORK PAD CULVERT PROFILE
NTS



BEACH WORK PAD CULVERT SECTION
NTS

LEGEND

 NON-FROST SUSCEPTIBLE (NFS) FILL

J:\2010\101018 Shakmanof Cove Quarry\F:\CMT\Drawings\prop permit\028 Beach Work Pad Sections.dwg, 06/19/2011 9:28:05 AM, almm, 1:1

DATUM: 0.0' MLLW
PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

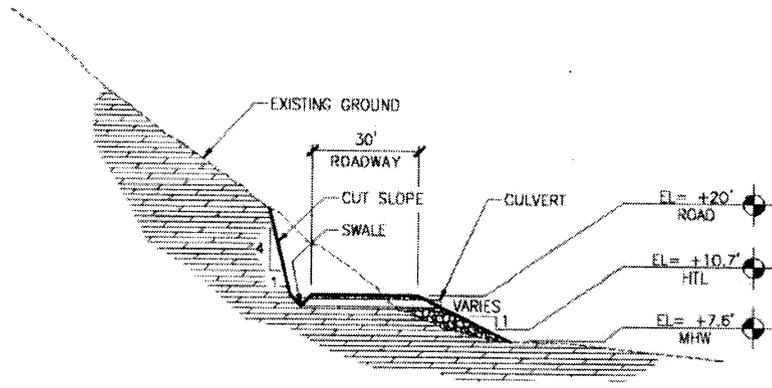
**PROPOSED BEACH
WORK PAD CULVERT
PROFILE & SECTION**

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

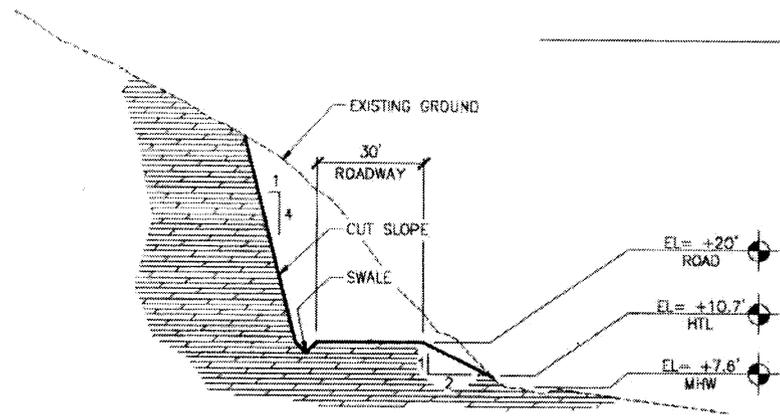
**SHAKMANOF COVE
QUARRY**

ON: KODIAK ISLAND, AK
AT: WEST SHORE OF
SHAKMANOF COVE

5/3/11 SHEET **6** of **14**



**TYPICAL SHORELINE ROAD
CUT/FILL SECTION B-B**



**TYPICAL SHORELINE ROAD
CUT SECTION C-C**

LEGEND

- BEDROCK
- NON-FROST SUSCEPTIBLE (NFS) FILL

**SHORELINE ROAD
QUANTITIES**

TOTAL ROAD LENGTH 740 FT
 TOTAL FILL 2,215 CY
 TOTAL SURFACE AREA 0.53 ACRES

J:\2010\101018 Shakmanof Cove Quarry\F-CutDrawings\plans permit\027 Shoreline Road Sections.dwg, 07, 9/20/11 9:30:30 AM, sheet: 11

DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

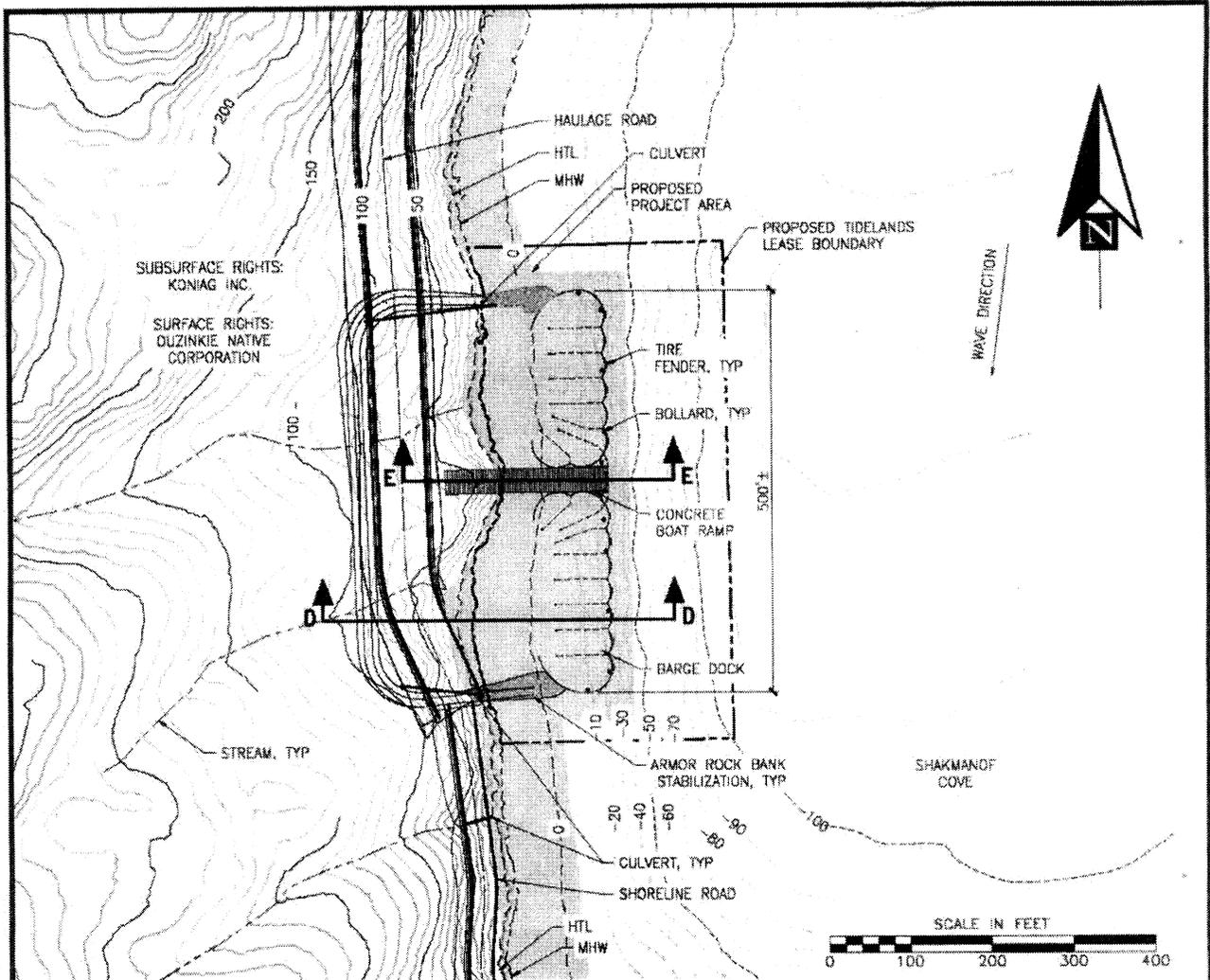
**TYPICAL SHORELINE
ROAD SECTIONS**

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

**SHAKMANOF COVE
QUARRY**

ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF
 SHAKMANOF COVE

5/3/11 SHEET **7** of **14**



LEGEND

- ARMOR ROCK
- WETLANDS FROM WETLAND DELINEATION
- STREAM

DOCK QUANTITIES

TOTAL FILL	68,000 CY
TOTAL SURFACE AREA	3.8 ACRES
ARMOR ROCK	7,000 CY
FILTER ROCK	3,000 CY
FILL BELOW HTL	61,300 CY
FILL BELOW MHW	46,800 CY
SURFACE AREA HTL	2.0 ACRES
SURFACE AREA MHW	1.7 ACRES

TIDAL DATUM

HIGH TIDE LINE (HTL)	10.7'
MEAN HIGH WATER (MHW)	7.6'
MEAN LOWER LOW WATER (MLLW)	0.0'

PROPOSED BARGE DOCK PLAN

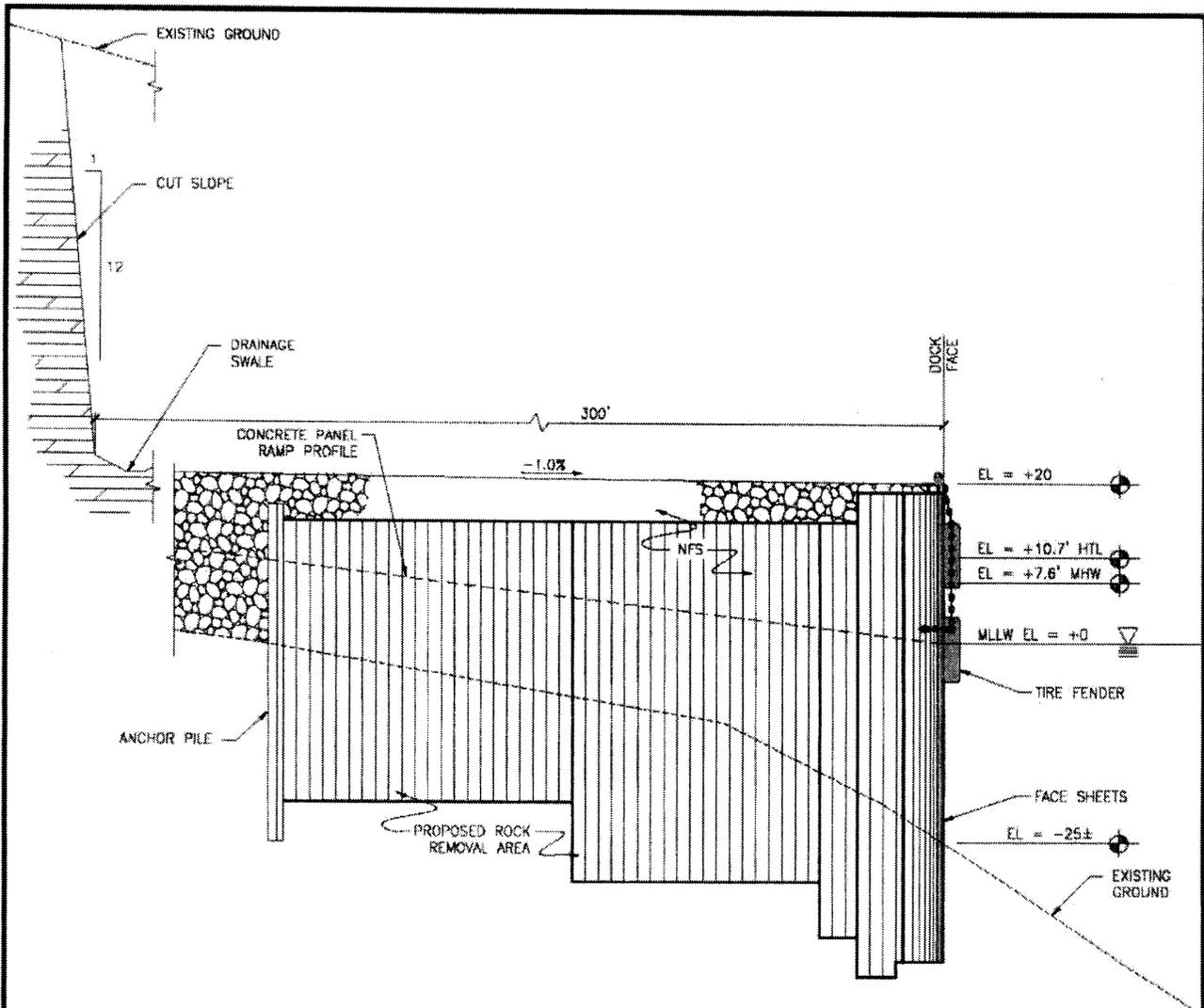
SHAKMANOF COVE QUARRY

DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

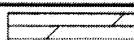
KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF SHAKMANOF COVE

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LEGEND

-  BEDROCK
-  NON-FROST SUSCEPTIBLE (NFS) FILL

DOCK QUANTITIES

IN WATER ROCK REMOVAL.....25,000 CY
(IF ENCOUNTERED)

TIDAL DATUM

HIGH TIDE LINE (HTL) 10.7'
MEAN HIGH WATER (MHW) 7.6'
MEAN LOWER LOW WATER (MLLW) 0.0'

TYPICAL BARGE DOCK SECTION D-D

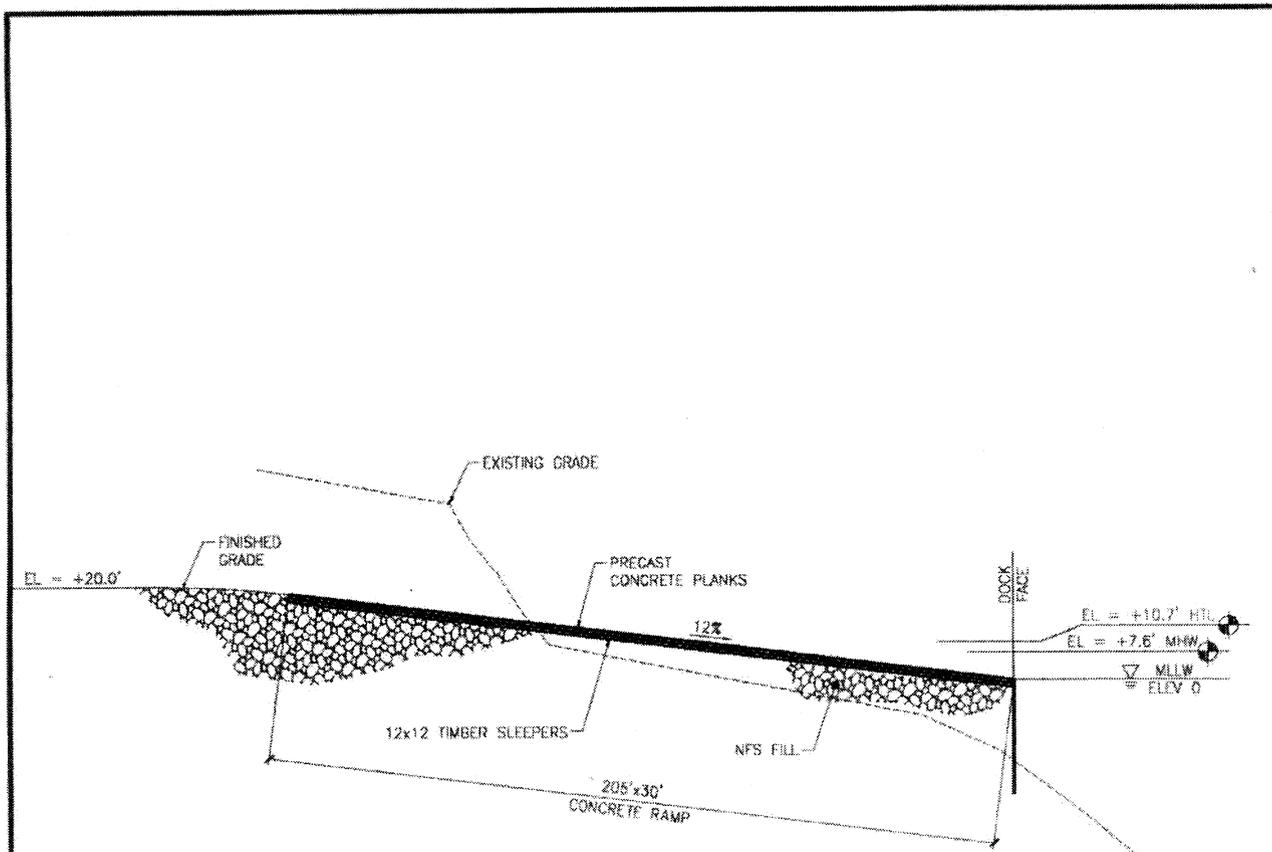
SHAKMANOV COVE QUARRY

DATUM: 0.0' MLLW
PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

ON: KODIAK ISLAND, AK
AT: WEST SHORE OF
SHAKMANOV COVE

5/3/11 SHEET **9** of **14**



LEGEND



NON-FROST
SUSCEPTIBLE
(NFS) FILL

TIDAL DATUM

HIGH TIDE LINE (HTL)	10.7'
MEAN HIGH WATER (MHW)	7.6'
MEAN LOWER LOW WATER (MLLW)	0.0'

RAMP SECTION E-E

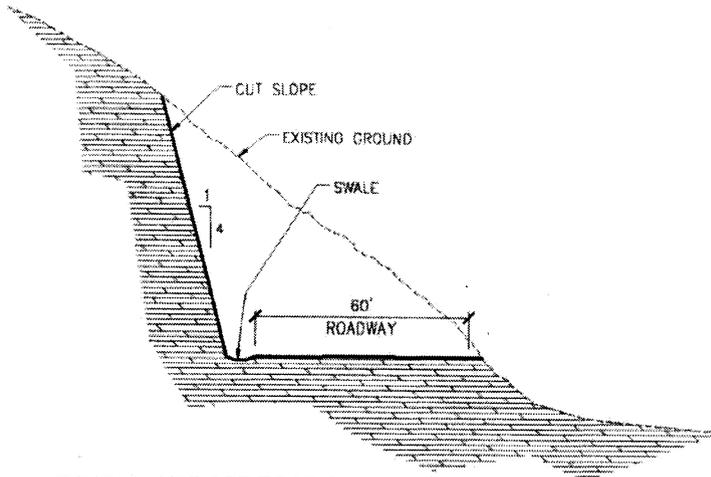
**SHAKMANOF COVE
QUARRY**

DATUM: 0.0' MLLW
PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

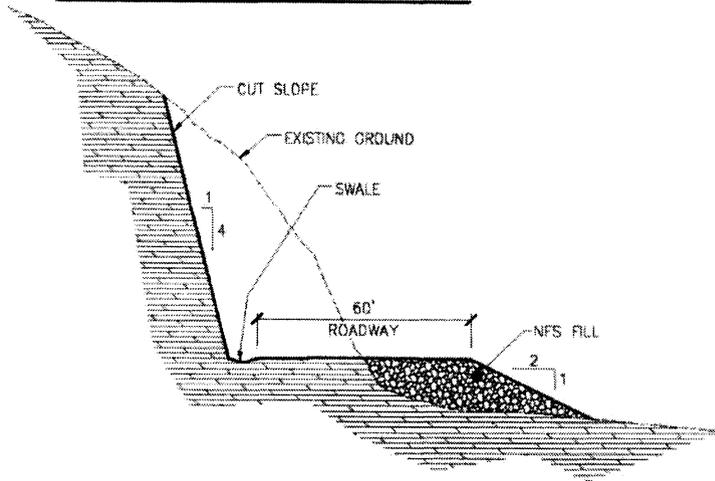
KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

ON: KODIAK ISLAND, AK
AT: WEST SHORE OF
SHAKMANOF COVE

5/3/11 SHEET **10** of **14**



TYPICAL HAULAGE ROAD CUT SECTION



TYPICAL HAULAGE ROAD CUT/FILL SECTION

LEGEND

- BEDROCK
- NON-FROST SUSCEPTIBLE (NFS) FILL

HAULAGE ROAD QUANTITIES

TOTAL ROAD LENGTH 4,525 FT
 TOTAL FILL 47,915 CY
 TOTAL SURFACE AREA 6.54 ACRES

DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

TYPICAL HAULAGE ROAD SECTIONS

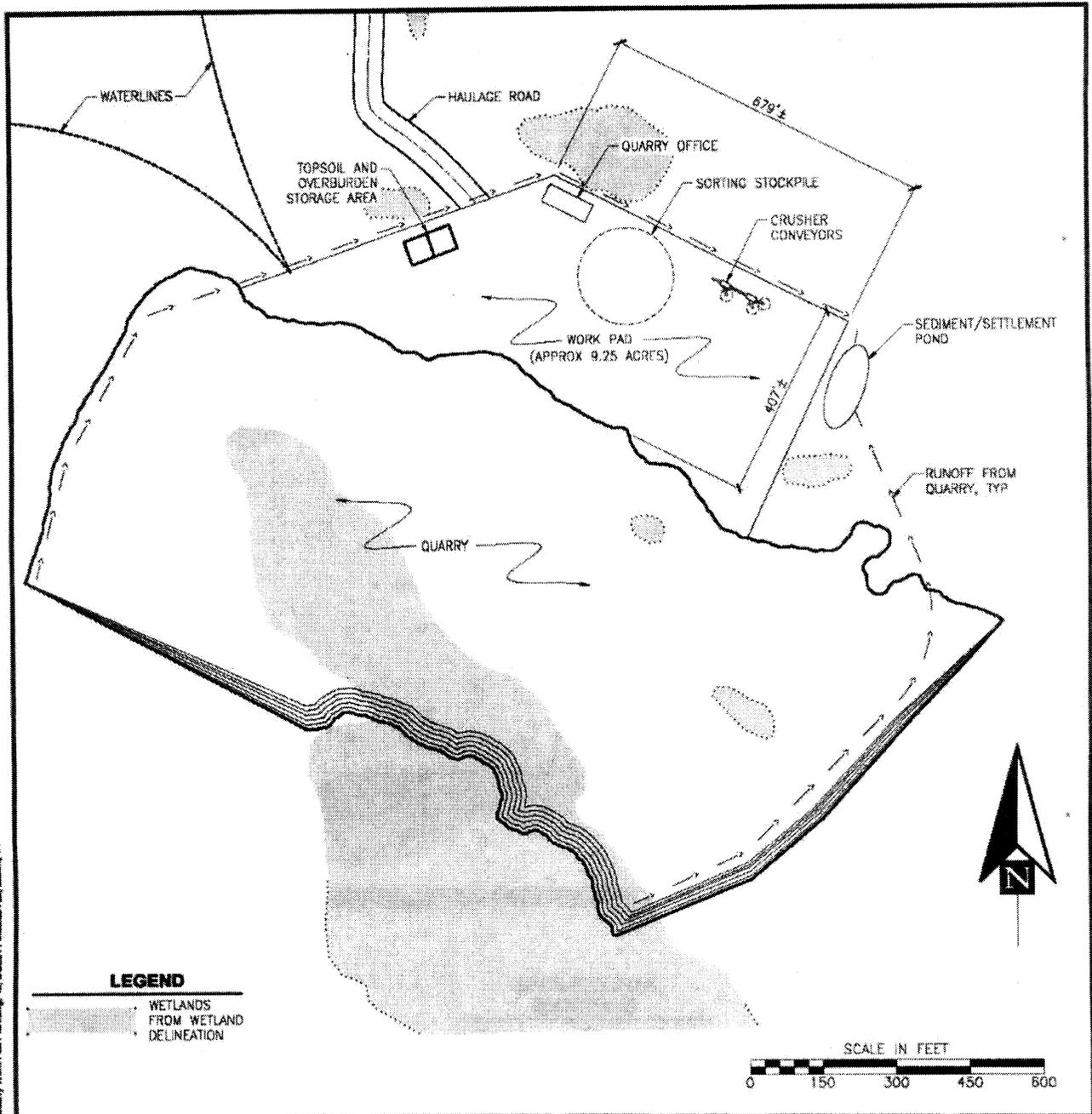
KONIAQ INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

SHAKMANOF COVE QUARRY

ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF SHAKMANOF COVE

5/3/11

SHEET **11** of **14**



1:200/1810/148 Shalmanof Cove Quarry/9. C:\41\Drawings\quarry\plan\12 Quarry Work Pad Plan.dwg, 10, 5/3/11 8:28:38 AM, sheet, 11

DATUM: 0.0' MLLW
PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

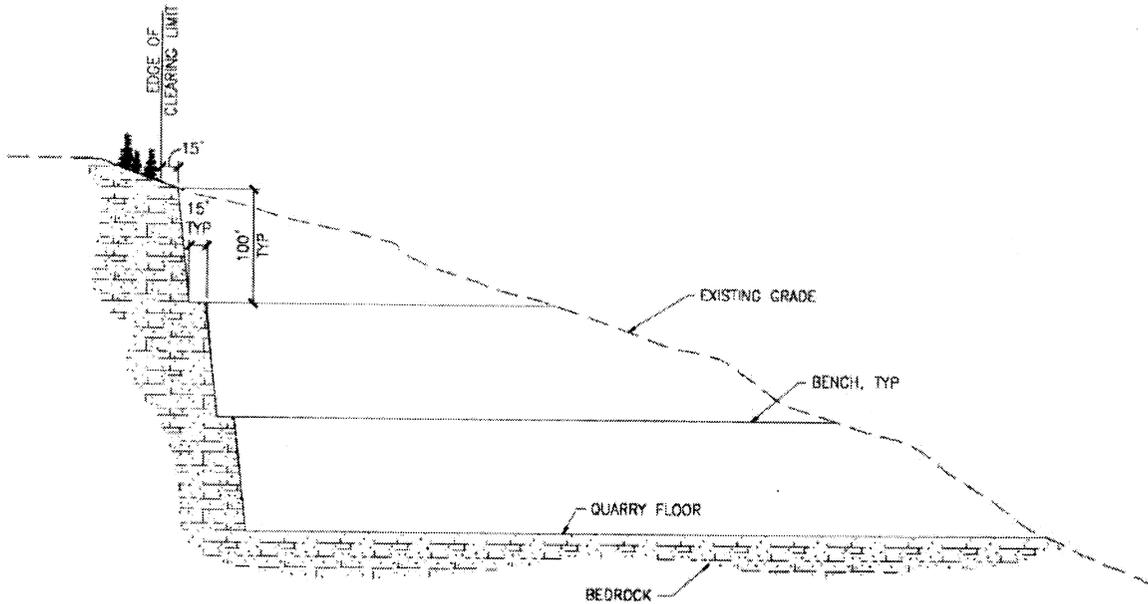
**PROPOSED
 QUARRY WORK
 PAD PLAN**

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

**SHAKMANOF COVE
 QUARRY**

ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF
 SHAKMANOF COVE

5/3/11 SHEET **12** of **14**



J:\2010\101018 Shakmanof Cove Quarry\F. Civil\Drawings\corp permits\13 Quarry Section.dwg, 13, 5/2/2011 2:28:47 AM, ekm, 1:1

**CONCEPTUAL
50-YEAR TYPICAL
QUARRY SECTION**

**SHAKMANOF COVE
QUARRY**

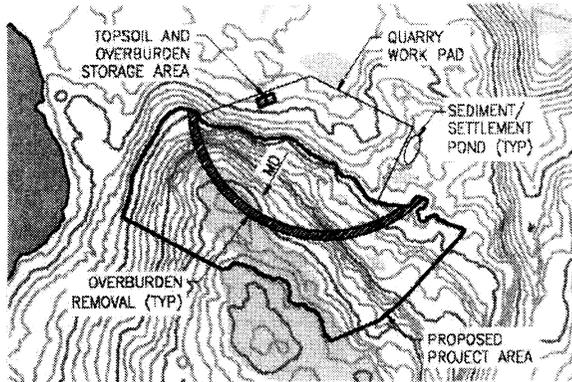
DATUM: 0.0' MLLW
PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

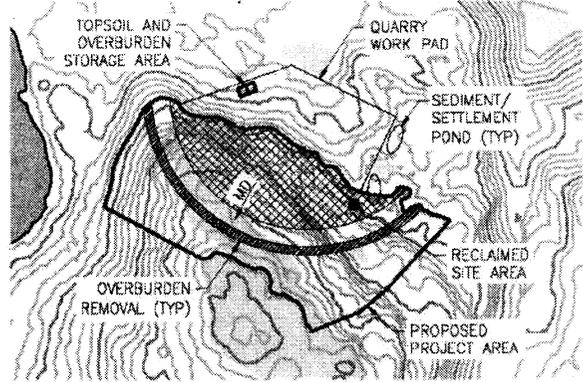
ON: KODIAK ISLAND, AK
AT: WEST SHORE OF
SHAKMANOF COVE

5/3/11

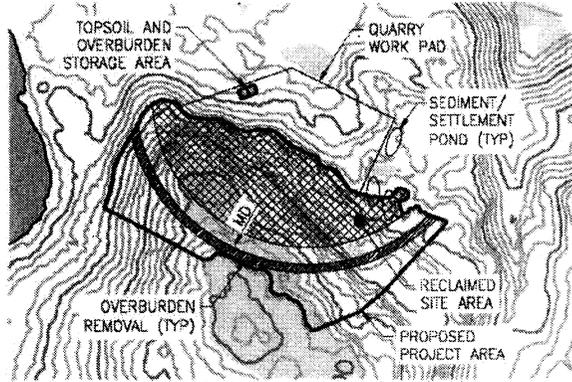
SHEET **13** of **14**



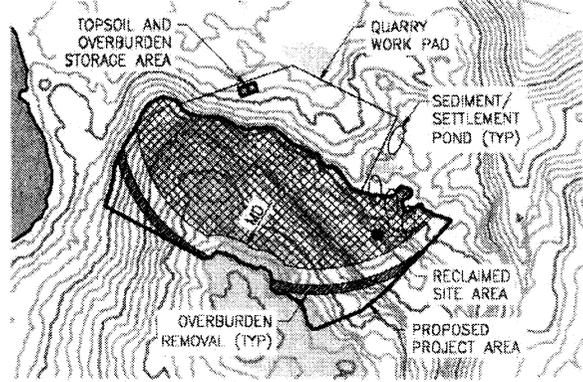
10-YR QUARRY EXTENTS 9.1 ACRES



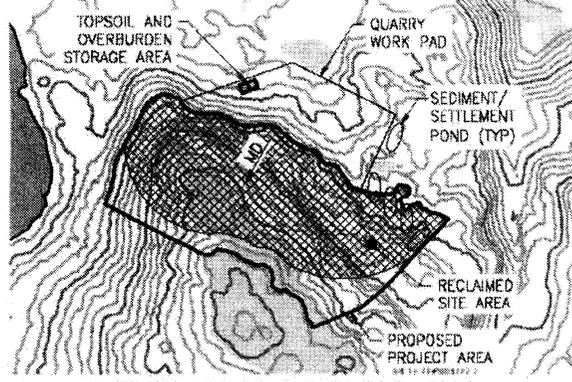
20-YR QUARRY EXTENTS 11.0 ACRES



30-YR QUARRY EXTENTS 15.6 ACRES

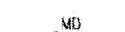
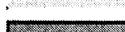


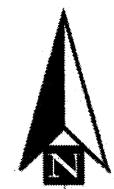
40-YR QUARRY EXTENTS 21.4 ACRES



50-YR QUARRY EXTENTS 31.5 ACRES

ANNUAL EXCAVATION ~ 140,000 CY

- LEGEND**
-  RECLAIMED AREA
 -  OVERBURDEN REMOVAL
 -  MINING DIRECTION
 -  WETLANDS FROM WETLAND DELINEATION
 -  LAKES FROM NWI



J:\2010\101018 Shakmanof Cove Quarry\5. Civil\Drawings\comp permits\14 Quarry Development Plan.dwg, 14, 5/20/2011 9:57:20 AM, dlsom, 1:1

CONCEPTUAL QUARRY DEVELOPMENT PLAN

SHAKMANOF COVE QUARRY

DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF SHAKMANOF COVE

STATE OF ALASKA

SEAN PARNELL, GOVERNOR

DEPT. OF ENVIRONMENTAL CONSERVATION

555 Cordova Street
Anchorage, AK 99501-2617

Phone: (907) 269-6383

Fax: (907) 334-2415

TTY: (907) 269-7511

<http://www.state.ak.us/dec/>

DIVISION OF WATER

Wastewater Discharge Authorization Program

August 8, 2011

Certified Mail 7000 0520 0020 2018 6953

Charlie C. Powers
Koniag, Inc.
194 Alimaq Drive
Kodiak, AK 99615

Subject: Shakmanof Cove Koniag Quarry
Reference No. POA-2010-496

Dear Mr. Powers:

In accordance with Section 401 of the Federal Clean Water Act of 1977 and provisions of the Alaska Water Quality Standards, the Department of Environmental Conservation is issuing the enclosed Certificate of Reasonable Assurance to provide access to a rock quarry southwest of Ouzinkie, Alaska.

Department of Environmental Conservation (DEC) regulations provide that any person who disagrees with this decision may request an informal review by the Division Director in accordance with 18 AAC 15.185 or an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340. An informal review request must be delivered to the Director, Division of Water, 555 Cordova Street, Anchorage, AK 99501, within 15 days of the permit decision. Visit <http://www.dec.state.ak.us/commish/ReviewGuidance.htm> for information on Administrative Appeals of Department decisions.

An adjudicatory hearing request must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, PO Box 111800, Juneau, AK 99811-1800, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

By copy of this letter we are advising the U.S. Army Corps of Engineers of our actions and enclosing a copy of the certification for their use.

Sincerely,


Sharon Morgan
Program Manager

Enclosure

cc: (with encl.)
Steve Lindamood, USACE, Anch.
Phil North, EPA, AK Operations
Aurora Courtney, PND Engineers, Inc.

William Ashton, ADEC, Anch.
Michael Daigneault, ADF&G/Habitat, Anch.
Ann Rapport, USF&WS, Anch.