

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CERTIFICATE OF REASONABLE ASSURANCE

A Certificate of Reasonable Assurance (CRA), in accordance with Section 401 of the Federal Clean Water Act and the Alaska Water Quality Standards is issued to Koniag, Inc., 194 Alimaq Drive, Kodiak, Alaska 99615 99615 to construct a sheet pile bulkhead fill dock in Shakmanof Cove to service an adjacent 210-acre upland rock quarry. Development activities for the quarry include constructing a temporary barge landing pad with associated dredging and a beach work pad, a 740-foot shoreline road connecting the barge landing to the permanent fill dock site, and a 4525-foot haul road connecting the fill dock to the rock quarry work pad. The proposed project would result in permanently filling 7.91 acres of waters of the U.S. and temporarily impacting approximately 1.93 additional acres of waters of the U.S.

The proposed activity is located within Section 13 and 24, T. 26 S., R. 21 W., Seward Meridian near Ouzinkie, Alaska.

Public notice of the application for this certification was given as required by 18 AAC 15.180.

A State Water Quality Certification is required under Section 401 because the proposed activity will be authorized by a U.S. Army Corps of Engineers permit, reference number POA-2010-496, and a discharge may result from the proposed activity.

The DEC reviewed the application and certifies that there is reasonable assurance that the proposed activity, as well as any discharge which may result, will comply with applicable provisions of Section 401 of the Clean Water Act and the Alaska Water Quality Standards, 18 AAC 70, provided that the following alternative measures are adhered to.

1. Reasonable precautions and controls must be used to prevent incidental and accidental discharge of petroleum products or other hazardous substances. Fuel storage and handling activities for equipment must be sited and conducted so there is no petroleum contamination of the ground, surface runoff or water bodies.
2. During construction, spill response equipment and supplies such as sorbent pads shall be available and used immediately to contain and cleanup oil, fuel, hydraulic fluid, antifreeze, or other pollutant spills. Any spill amount must be reported in accordance with Discharge Notification and Reporting Requirements (AS 46.03.755 and 18 AAC 75 Article 3). Most importantly, the applicant must contact by telephone the DEC Area Response Team for Central Alaska at (907) 269-3063 during work hours or 1-800-478-9300 after hours. Also, the applicant must contact by telephone the National Response Center at 1-800-424-8802. Report all spills

3. This project and the quarry shall apply for coverage under ADEC's APDES Multi-Sector General Permit (AKR050000). This permit requires that a Storm Water Pollution Prevention Plan (SWPPP) describing best management practices to control erosion and runoff during facility operation be prepared and implemented. Please refer to ADEC's website for information concerning the APDES storm water permit.
4. Any disturbed ground and exposed soil not covered with fill must be stabilized and revegetated with endemic species, grasses, or other suitable vegetation in an appropriate manner to minimize erosion and sedimentation, so that a durable vegetative cover is established in a timely manner.
5. All work areas, material access routes within the project footprint as described in the Corps Public Notice POA-2010-496, and surrounding wetlands involved with the road construction shall be clearly delineated and marked in such a way that equipment operators do not operate outside of this corridor.
6. Organic overburden soil stockpiles shall be stabilized as soon as practicable after placement to minimize erosion or sediment runoff.
7. No materials used for fill placement shall consist of unsuitable fill material. This includes but is not limited to trash, metal debris, overburden material, or wood waste. All material used for construction or discharged must be free from toxic pollutants in toxic amounts.

This certification expires five (5) years after the date the certification is signed. If your project is not completed by then and work under U.S Army Corps of Engineers Permit will continue, you must submit an application for renewal of this certification no later than 30 days before the expiration date (18 AAC 15.100).

Date August 8, 2011

Sharon Morgan
Sharon Morgan, Manager
Wastewater Discharge Authorization
Program



**This notice of authorization must be
conspicuously displayed at the site of work.**

United States Army Corps of Engineers
SHAKANOF COVE

A permit to: CONSTRUCT A PERMANENT SHEET PILE BULLHEAD FILL DOCK
AND TEMPORARY BARGE LANDING TO SERVICE A 210-ACRE UPLAND ROCK QUARRY

at: FOUR MILES SOUTHWEST OF THE COMMUNITY OF OUZINKIE, ON THE WEST SHORE
OF SHAKMANOF COVE, NEAR KODIAK, ALASKA

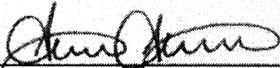
has been issued to: KONIAG, INCORPORATED

on: AUG 19 2011 and expires on: AUGUST 31, 2016

Address of Permittee: 194 ALIMAQ DRIVE, KODIAK, ALASKA 99615

Permit Number:

POA-2010-496


FOR: District Commander
SERENA SWEET
PROJECT MANAGER
REGULATORY DIVISION



REPLY TO
ATTENTION OF:

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

SEP 06 2012

Regulatory Division
POA-2010-496-M1

Koniag, Inc.
Attention: Mr. Charlie Powers, Vice President
194 Alimaq Drive
Kodiak, Alaska 9615

Dear Mr. Powers:

Enclosed is the signed Department of the Army (DA) permit modification, file number POA-2010-496-M1, Shakmanof Cove. This is the first permit modification of the original permit. Also enclosed is a Notice of Authorization that should be posted in a prominent location near the authorized work.

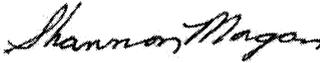
If changes to the plans or location of the work are necessary for any reason, plans must be submitted to us immediately. Federal law requires approval of any changes before construction begins.

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

Also enclosed is a Notification of Administrative Appeals Options and Process and Request for Appeal form regarding this DA Permit Modification (see section labeled "Initial Proffered Permit").

Please contact me via email at heather.l.boyer@usace.army.mil, by mail at the address above, by phone at (907) 753-2877, or toll free from within Alaska at (800) 478-2712, if you have questions.

Sincerely,


for Heather Boyer
Project Manager

Enclosures



REPLY TO
ATTENTION OF:

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

SEP 06 2012

Regulatory Division
POA-201-496-M1

DEPARTMENT OF THE ARMY
PERMIT MODIFICATION

Department of the Army permit number POA-2010-496-M1, Shakmanof Cove, was issued to Koniag, Inc. on August 19, 2011, to 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	

This is the first modification of the original permit. The permit is hereby modified as follows:

The proposed modification includes the fill for the barge landing changing from temporary to permanent, and increase of 4.1 acres of fill for the beach work pad and replacing culverts at the beach work pad with a stream diversion, and an increase of 1.69 acres of fill for the shoreline roadway. The proposed modification would total an additional 5.79 acres of fill into waters of the U.S., including wetlands, with total project impacts of 13.7 acres.

2012 USACE Mod	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	4.1	64,100					2.67	
Shoreline Roadway (700 length)	1.47	31,958	1.69		15,000			
Haulage Roadway (4525' length)								
Permanent Fill Dock (500' length)								
Permanent Quarry Area (31.5 acres) and Quarry Workpad (9.25 acres)								
TOTAL	5.57	96,058	1.69	0	15,000	0	2.67	

The work will be performed in accordance with the enclosed plans, sheets 1-7, dated April 11, 2017, which are incorporated in and made a part of this Permit Modification.

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.

The following conditions apply to this permit modification:

1. The Northern Sea Otter Observer Protocol provided by the USFWS shall also be applied to Steller sea lion and all marine mammals.
2. As compensatory mitigation for unavoidable permanent impacts to aquatic resources, Koniag Incorporated, shall provide compensatory mitigation for the entire amount of fill for the project, including the additional fill authorized by this permit modification, 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 construction activities, at the following address:

U.S. Army Corps of Engineers (CEPOA-RD)
Regulatory Division
Post Office Box 6898
JBER, AK 99506-0898

Condition 9 stating "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 elevation," no longer applies since the temporary fill this refers to will now be permanently placed. All other conditions under which the subject authorization was made remain in full force and effect.

under which the subject authorization was made remain in full force and effect.

This authorization and the enclosed modified plans should be attached to the original permit. Also enclosed is a Notice of Authorization that should be posted in a prominent location near the authorized work.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

Shannon Morgan

for Heather Boyer
Project Manager



This notice of authorization must be
conspicuously displayed at the site of work.

United States Army Corps of Engineers
SHAKMANOF COVE

A permit to: KONIAG, INC.

at: LATITUDE 57.9159° N., LONGITUDE -152.6073° W.; APPROXIMATELY FOUR
MILES SOUTHWEST OF THE COMMUNITY OF OUZINKIE, NEAR KODIAK, ALASKA.

has been issued to: KONIAG, INC.

on: SEP 06 2012 and expires on: AUGUST 31, 2016

Address of Permittee: 194 ALIMAQ DRIVE, KODIAK, ALASKA 99615

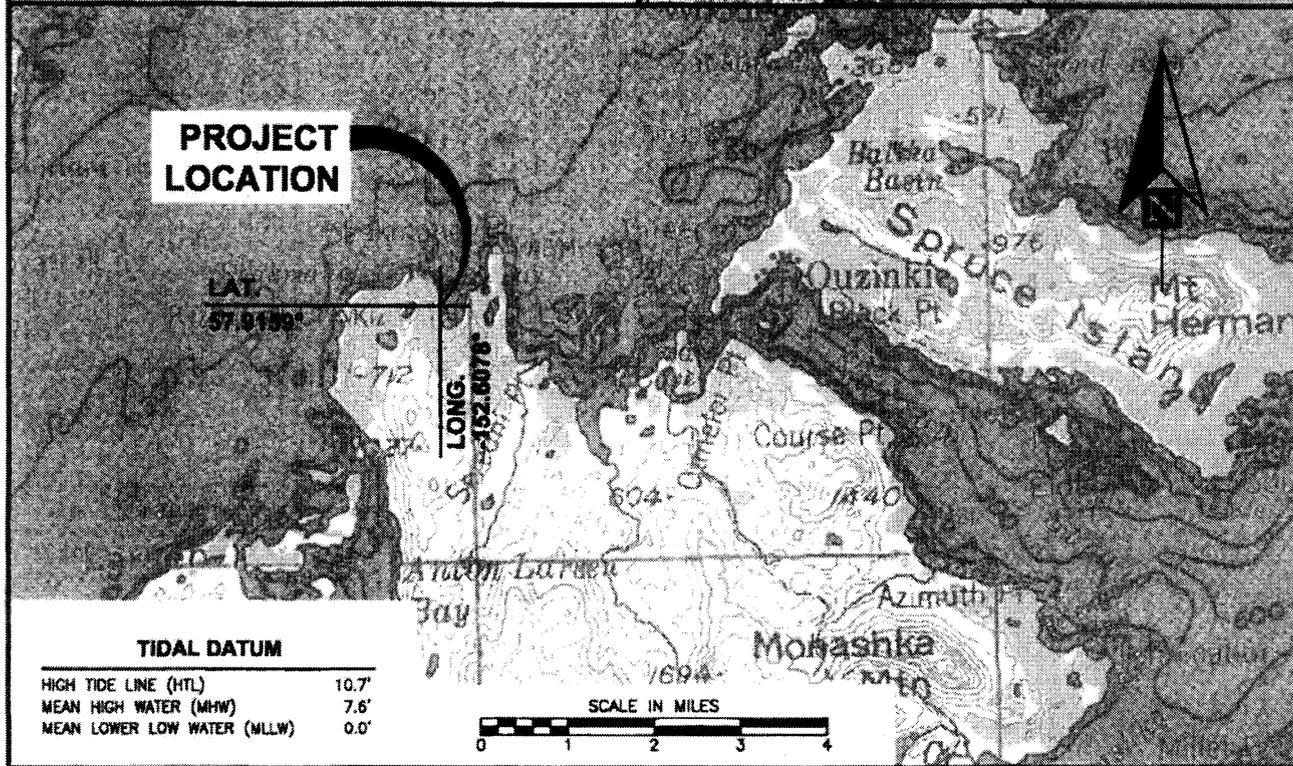
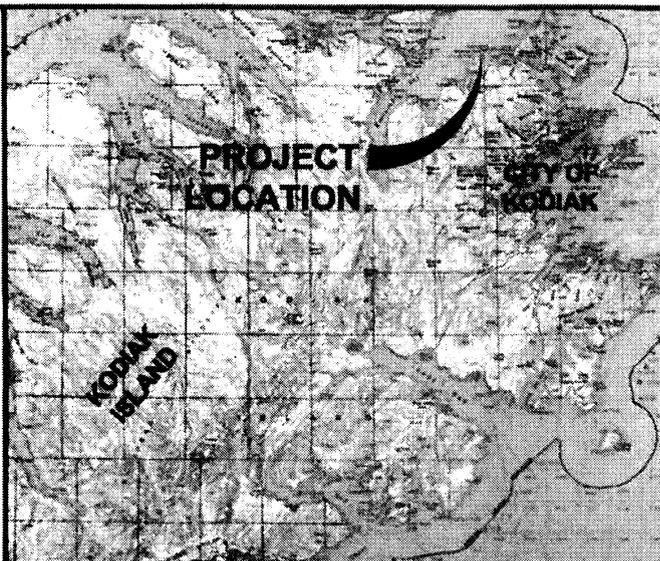
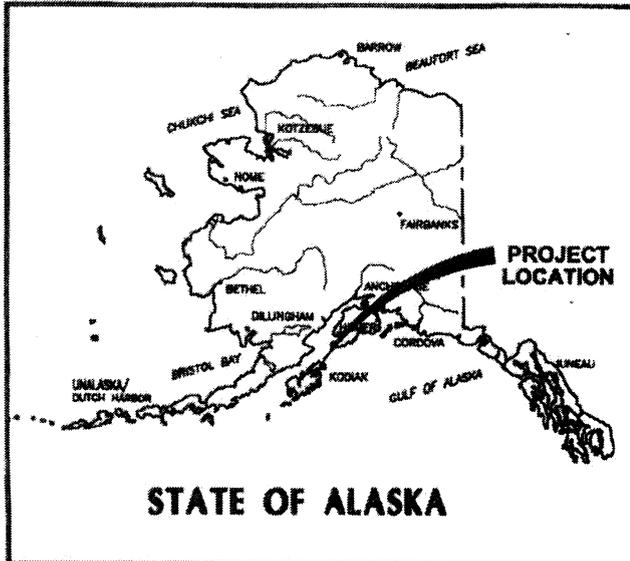
Permit Number:

POA-2010-496-M1

FOR: *Shannon Magan*
District Commander
Heather Boyer
Project Manager
REGULATORY DIVISION

ENG FORM 4336, Jul 81 (33 CFR 320-330) EDITION OF JUL 70 MAY BE USED

(Proponent: CECW-O)



PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE A SAFER SHORELINE ROAD AND BEACH WORK PAD

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

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

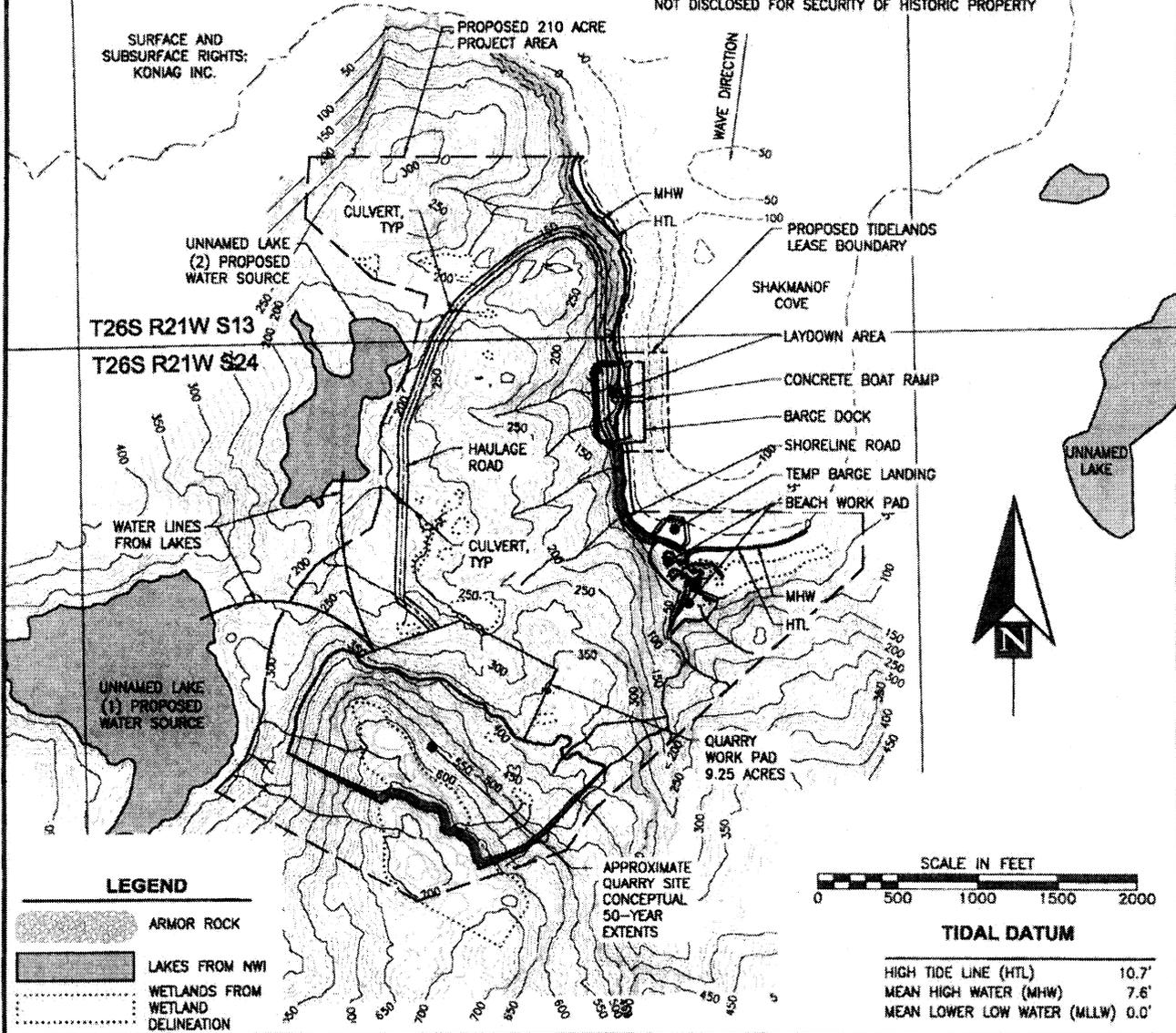
4/17/2012 SHEET **1 of 7**

WETLAND IMPACT AREAS

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

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.
 NOT DISCLOSED FOR SECURITY OF HISTORIC PROPERTY



PROPOSED ACTIVITY: MODIFY
 EXISTING PERMIT TO INCLUDE
 A SAFER SHORELINE ROAD
 AND BEACH WORK PAD

**EXISTING PERMITTED
 SITE PLAN
 PERMIT #POA-2010-496**

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

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

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

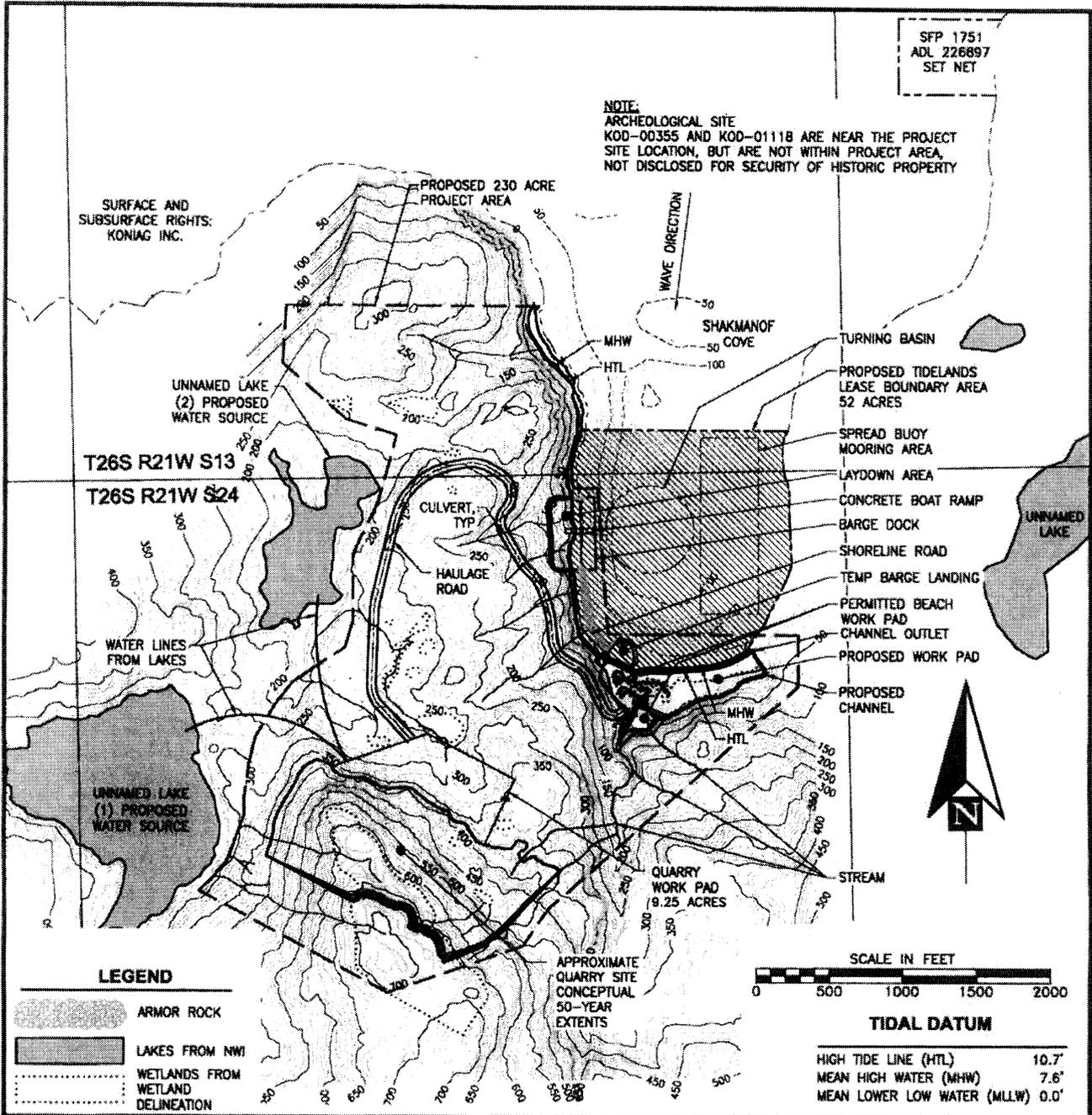
ON: KODIAK ISLAND, AK
 AT: WEST SHORE OF
 SHAKMANOF COVE

4/17/2012 SHEET **2 of 7**

J:\2010\10\18 Shakmanof Cove Quarry\ - Civil\Drawings\002 Existing Permitted Site Plan.dwg, DZ, 4/17/2012 3:42:11 PM, James, 1:1

SFP 1751
ADL 226897
SET NET

NOTE:
ARCHAEOLOGICAL 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



LEGEND

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

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE A SAFER SHORELINE ROAD AND BEACH WORK PAD

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

MODIFIED SITE PLAN

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

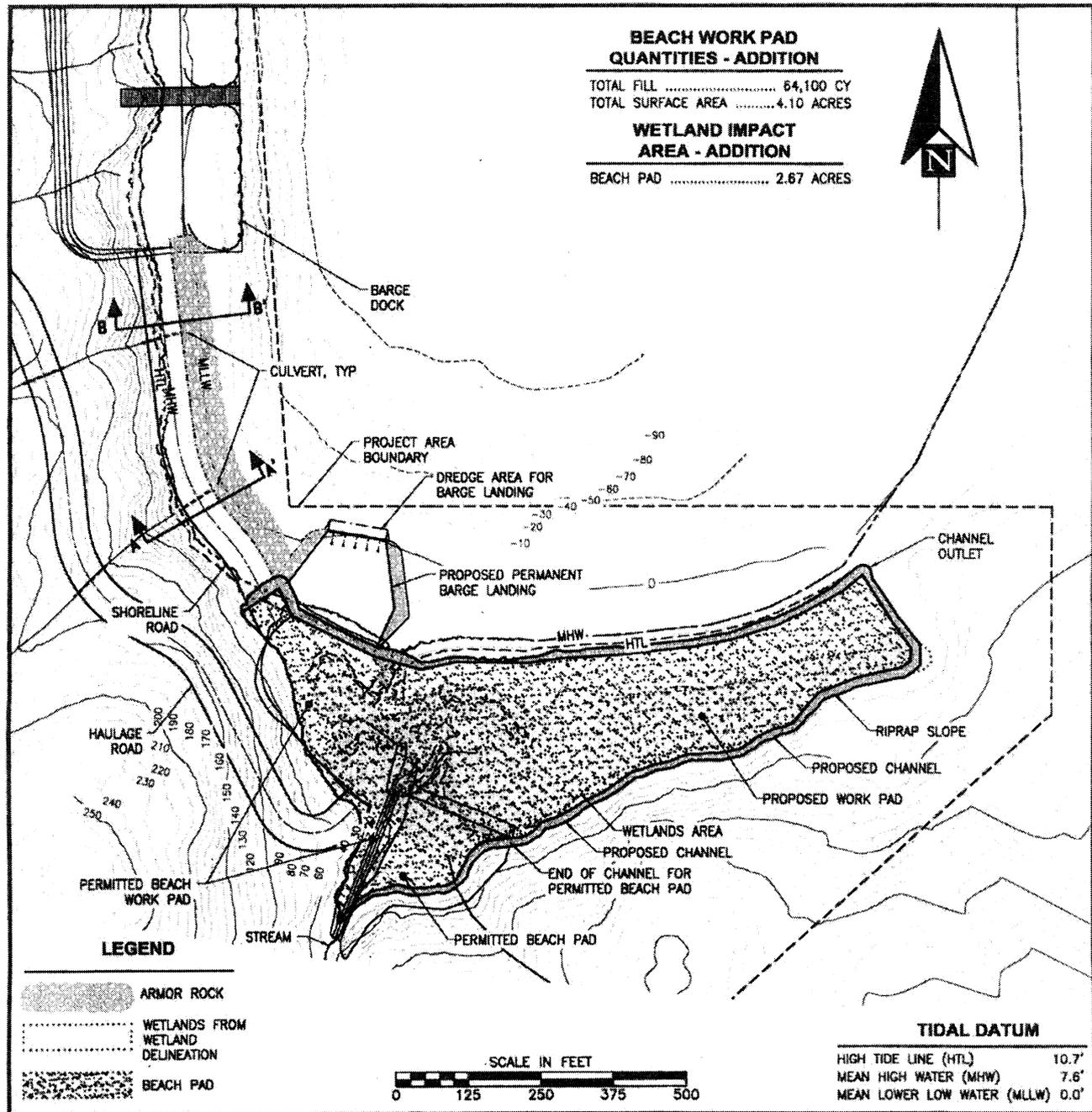
SHAKMANOF COVE QUARRY MODIFICATION POA-2010-496

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

4/17/2012 SHEET **3 of 7**

**BEACH WORK PAD
QUANTITIES - ADDITION**
 TOTAL FILL 84,100 CY
 TOTAL SURFACE AREA 4.10 ACRES

**WETLAND IMPACT
AREA - ADDITION**
 BEACH PAD 2.67 ACRES



PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE A SAFER SHORELINE ROAD AND BEACH WORK PAD

DATUM: 0.0' MLLW

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

**PROPOSED
BARGE LANDING &
BEACH WORK PAD
PLAN**

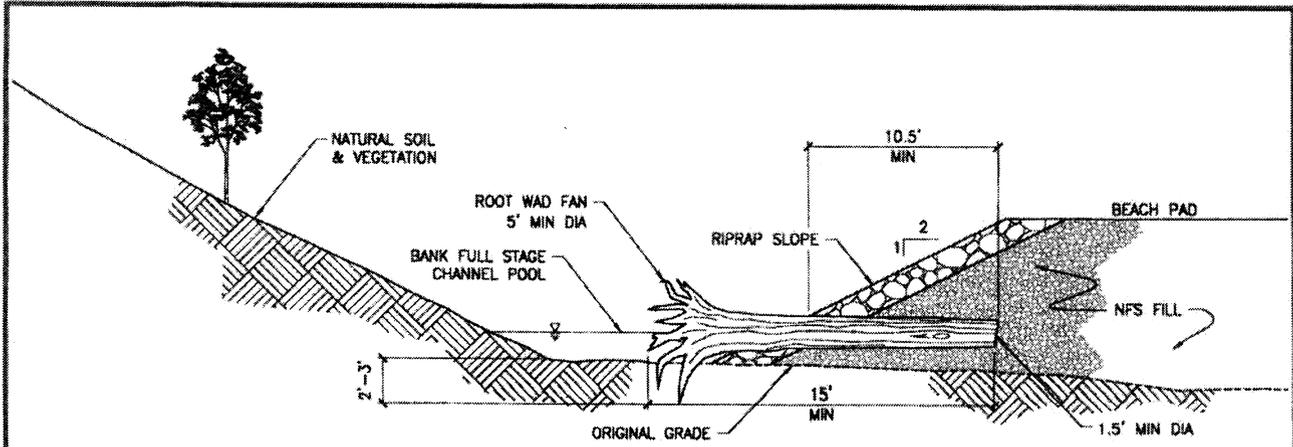
KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

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

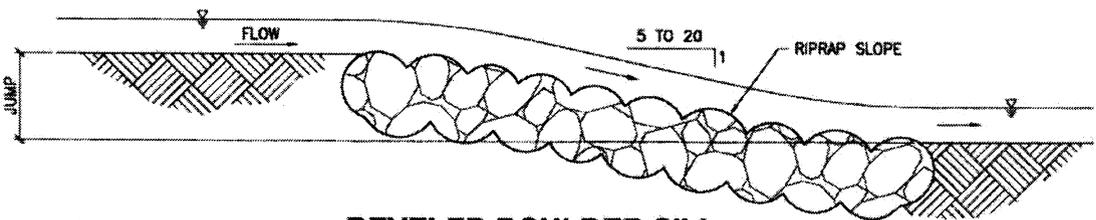
ON: KODIAK ISLAND, AK
AT: WEST SHORE OF SHAKMANOF COVE

4/17/2012 SHEET **4** of **7**

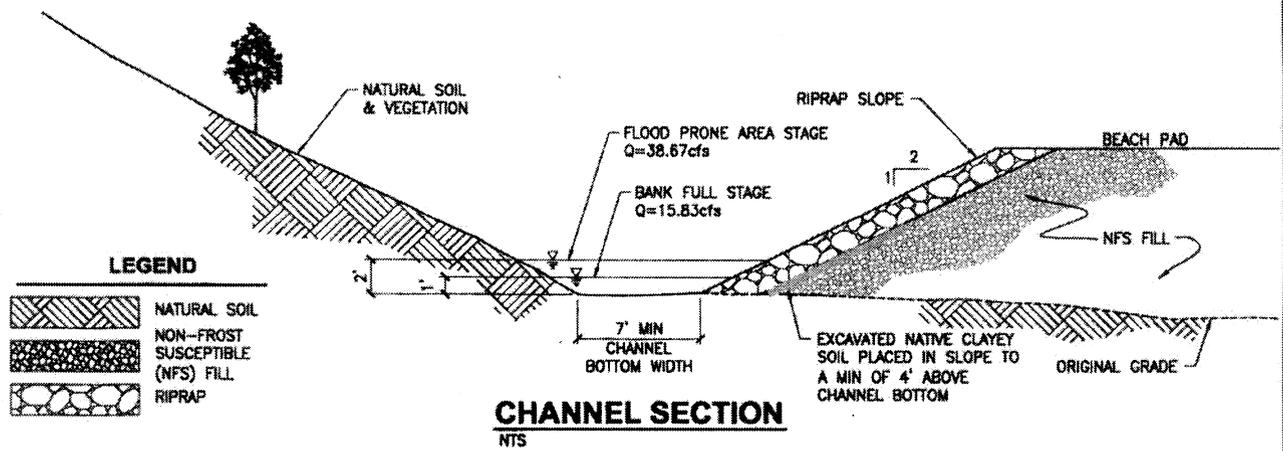
J:\2010\10\10\18 Shakmanof Cove Quarry - Civil\Drawings\prop permit\04 Barge & Work Pad Plan.dwg, 04, 4/17/2012 3:42:24 PM, James, 1:1



ROOT WAD STRUCTURE
 PLACED ALONG BED SLOPES BETWEEN 0.5 AND 4.0 PERCENT



BEVELED BOULDER SILL
 PLACED WHERE A JUMP IN GRADE OF 12" OR MORE EXISTS



- LEGEND**
- NATURAL SOIL
 - NON-FROST SUSCEPTIBLE (NFS) FILL
 - RIPRAP

CHANNEL SECTION
 NTS

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE A SAFER SHORELINE ROAD AND BEACH WORK PAD

DATUM: 0.0' MLLW

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

TYPICAL DRAINAGE SECTIONS

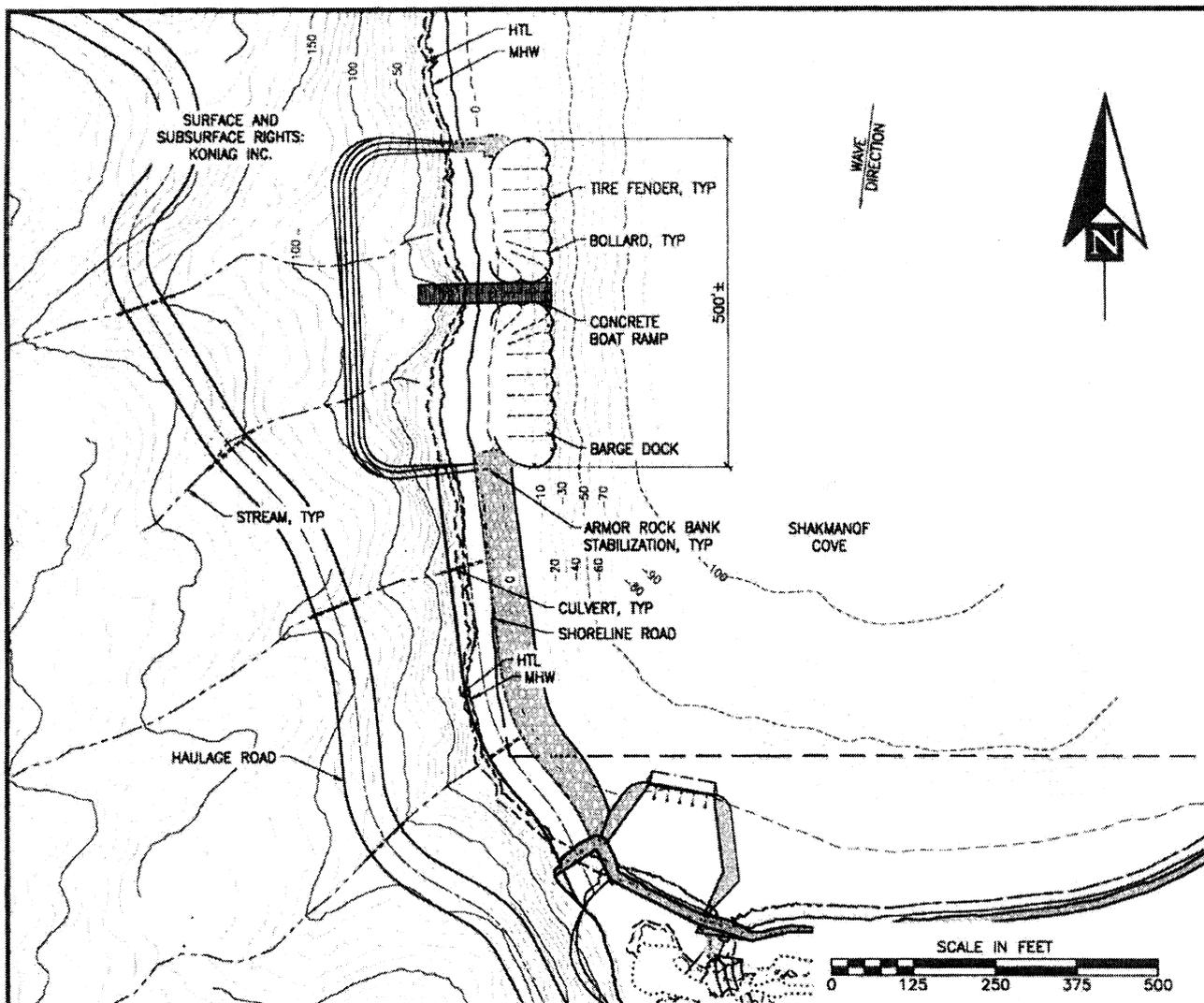
KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

SHAKMANOF COVE QUARRY MODIFICATION POA-2010-496

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

4/17/2012 SHEET **5** of **7**

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SURFACE AND
SUBSURFACE RIGHTS:
KONIAG INC.

WAVE
DIRECTION



LEGEND

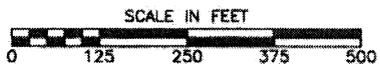
-  ARMOR ROCK
-  WETLANDS FROM WETLAND DELINEATION
-  STREAM

**SHORELINE ROAD
QUANTITIES - ADDITION**

TOTAL ROAD LENGTH	700 FT
TOTAL FILL	31,958 CY
TOTAL SURFACE AREA	1.47 ACRES
FILL BELOW HTL	15,000 CY
FILL BELOW MHW	2,480 CY
SURFACE AREA HTL	1.69 ACRES
SURFACE AREA MHW	1.48 ACRES

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 INCLUDE
A SAFER SHORELINE ROAD
AND BEACH WORK PAD

**PERMITTED
BARGE DOCK PLAN
& PROPOSED
SHORELINE ROAD**

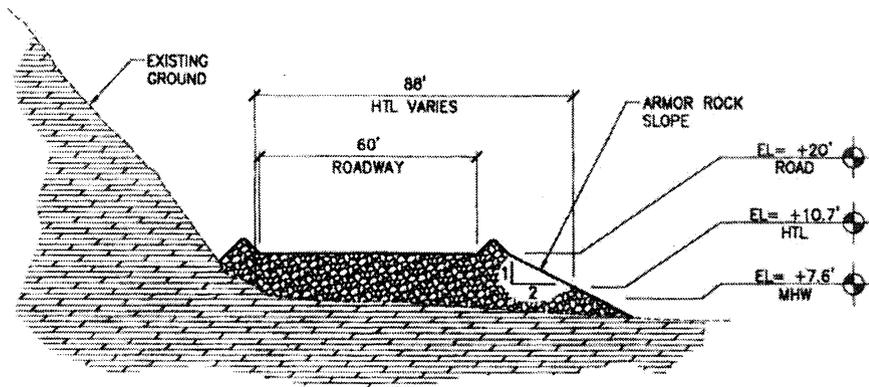
**SHAKMANOF COVE
QUARRY
MODIFICATION
POA-2010-496**

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

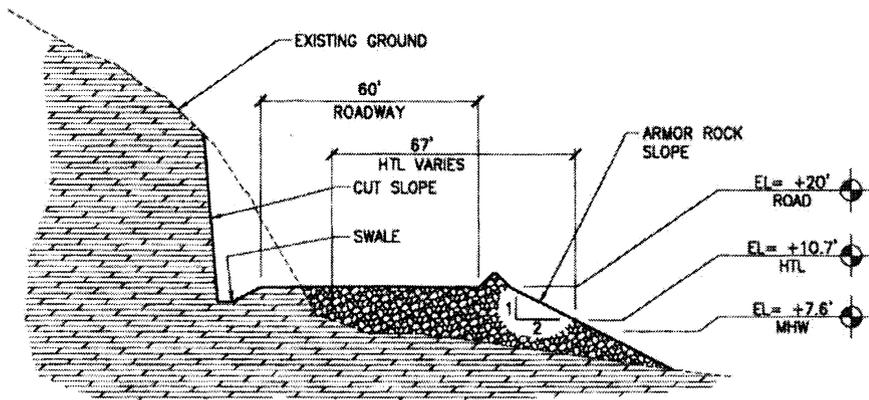
KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

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

J:\2010\10\18\Shakmanof Cove Quarry\F_Civil\Drawings\copy permit\06 Permitted Dock Plan & Proposed Shoreline Road.dwg, 06, 4/17/2012 3:42:34 PM, James, 1:1

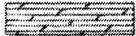


**TYPICAL SHORELINE ROAD
CUT/FILL SECTION A-A'**



**TYPICAL SHORELINE ROAD
CUT SECTION B-B'**

LEGEND

-  BEDROCK
-  NON-FROST SUSCEPTIBLE (NFS) FILL

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE A SAFER SHORELINE ROAD AND BEACH WORK PAD

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 MODIFICATION POA-2010-496

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

4/17/2012 SHEET **7 of 7**



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

OCT 29 2013

Regulatory Division
POA-2010-496-M2

Koniag, Inc.
Mr. Charlie Powers, Vice President
194 Alimaq Drive
Kodiak, Alaska 99615

Dear Mr. Powers:

Enclosed is the signed Department of the Army (DA) permit modification, file number POA-2010-496-M2, Shakmanof Cove. This is the 2nd permit modification of the original permit. Also enclosed is a Notice of Authorization that 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.

Also enclosed is a Notification of Administrative Appeals Options and Process and Request for Appeal form regarding this DA Permit Modification (see section labeled "Initial Proffered Permit").

Please contact me via email at Heather.L.Boyer@usace.army.mil, by mail at the address above, by phone at (907) 753-2877, or toll free from within Alaska at (800) 478-2712, if you have questions.

Sincerely,

A handwritten signature in cursive script that reads "Heather Boyer".

Heather Boyer
Project Manager

Enclosures



DEPARTMENT OF THE ARMY
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY DIVISION
P.O. BOX 6898
JBER, ALASKA 99506-0898
OCT 29 2013

Regulatory Division
POA-2010-496-M2

DEPARTMENT OF THE ARMY
PERMIT MODIFICATION

Department of the Army permit number POA-2010-496-M1, Shakmanof Cove, was issued to Koniag, Inc. on September 6, 2012, to change the fill for the barge landing from temporary to permanent, increase fill for the beach work pad by 4.1 acres and to replace culverts at the beach work pad with a stream diversion, and to increase fill for the shoreline roadway by 1.69 acres. This modification totaled an additional 5.79 acres of fill into waters of the U.S., including wetlands, with total project impacts of 13.7 acres.

This is the 2nd modification of the original permit. The permit is hereby modified as follows:

- To construct an additional 2 breasting dolphins consisting of two 24-inch steel pipe piles, one vertical and one battered; construct a removable 25-foot steel ramp supported by two 24-inch steel pipe piles; and to place an additional 0.02-acre of fill below the High Tide Line.

The work will be performed in accordance with the enclosed plans, sheets 1-5, dated July 2013, which are incorporated in and made a part of this Permit Modification.

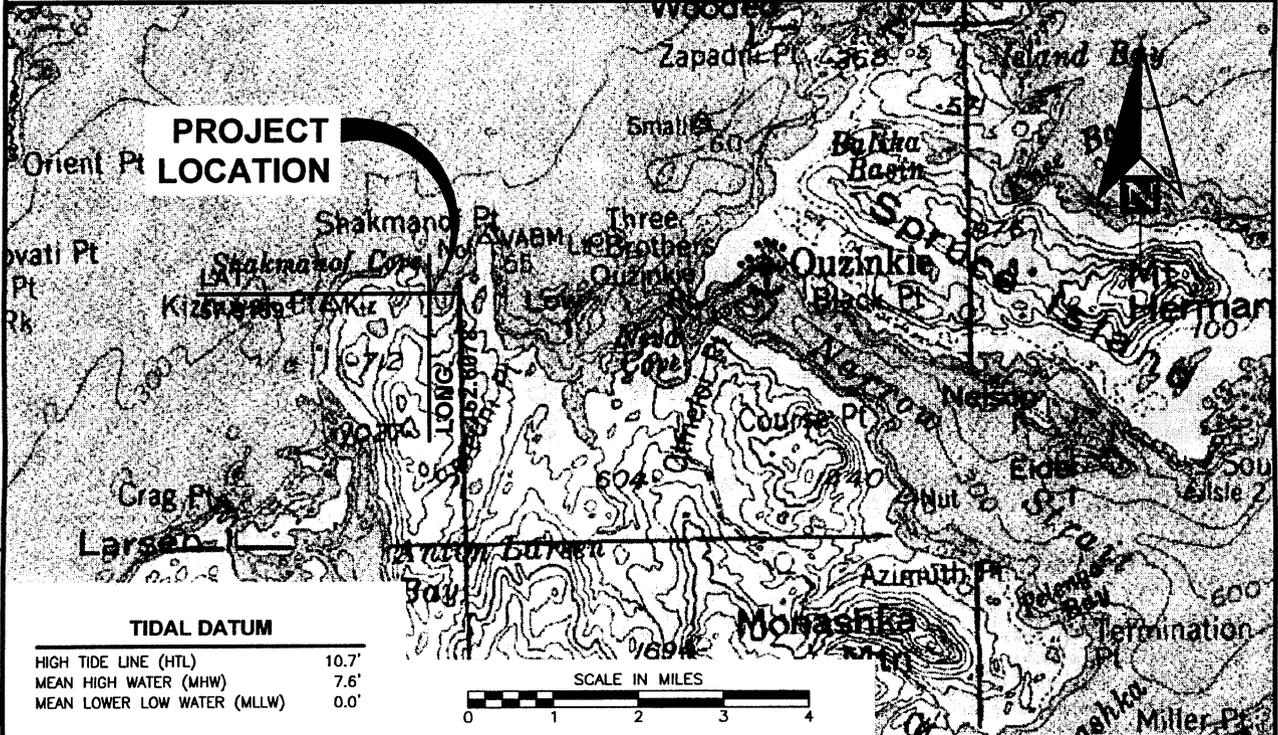
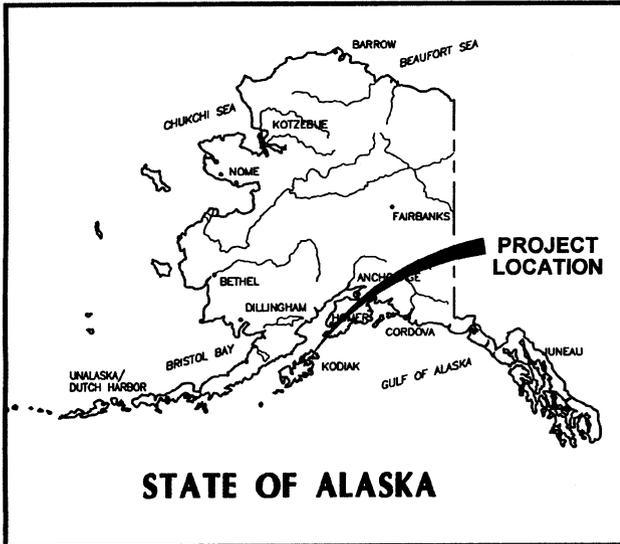
The project site is located within Sections 13 and 24, T. 26 S., R. 21 W., Seward Meridian; USGS Quad Map KODIAK D-2; Latitude 57.9159° N., Longitude -152.6073° W.; located approximately four miles southwest of the community of Ouzinkie, near Kodiak, Alaska.

All conditions under which the subject authorization was made remain in full force and effect and shall apply to this modification as well as all previously authorized work.

This authorization and the enclosed modified plans should be attached to the original permit. Also enclosed is a Notice of Authorization that should be posted in a prominent location near the authorized work.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:


Heather Boyer
Project Manager



Drawings\2010\101018 - Shakmanof Cove Quarry\Permit-42_Revision\101018-01.dwg

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE BARGE LOADING RAMP AND 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

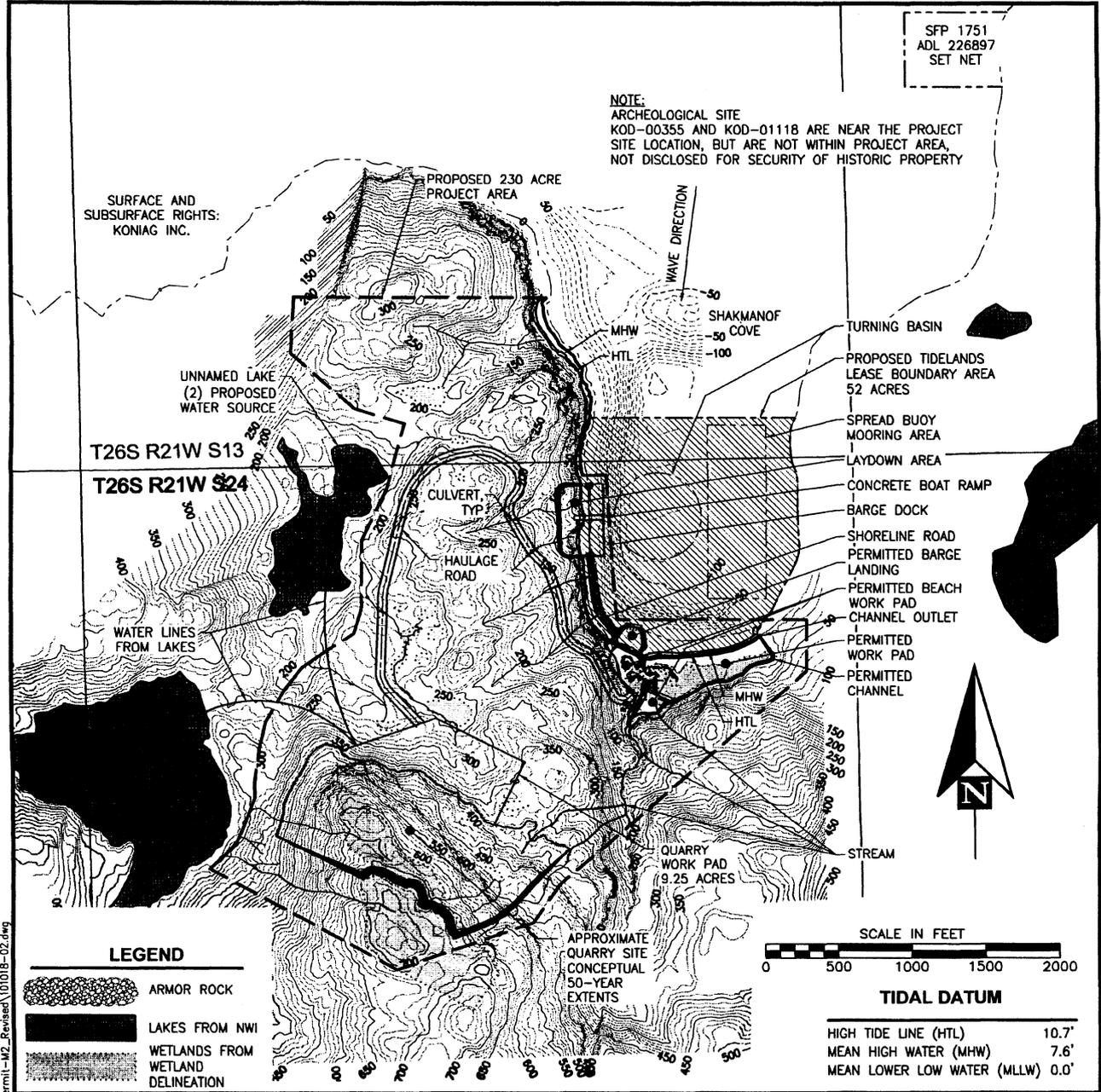
**SHAKMANOF COVE QUARRY MODIFICATION
POA-2010-496-M2**

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

JULY 2013 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,
NOT DISCLOSED FOR SECURITY OF HISTORIC PROPERTY



Drawings\2010\01018 - Shakmanof Cove Quarry\Permit-M2_Revise\101018-02.dwg

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE BARGE LOADING RAMP AND DOLPHINS.

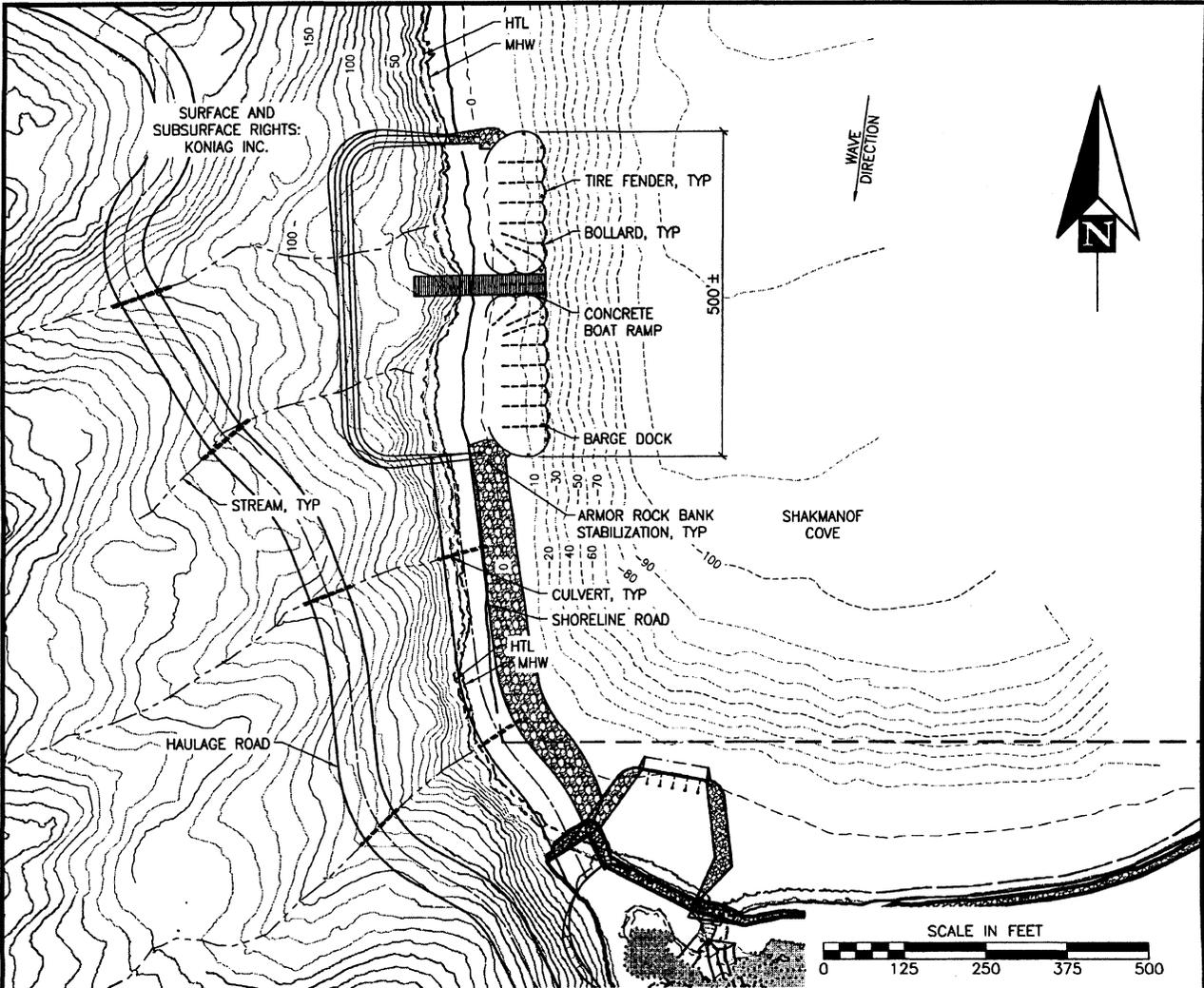
DATUM: 0.0' MLLW
PROJECT LOCATION:
SEC. 13 & 24, T26S, R21W, S.M.

**PREVIOUSLY PERMITTED
SITE PLAN
#POA-2010-461-M1**

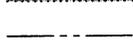
KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

**SHAKMANOF COVE
QUARRY
MODIFICATION
POA-2010-496-M2**

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



LEGEND

-  ARMOR ROCK
-  WETLANDS FROM WETLAND DELINEATION
-  STREAM

SHORELINE ROAD QUANTITIES - ADDITION

TOTAL ROAD LENGTH	700 FT
TOTAL FILL	31,958 CY
TOTAL SURFACE AREA	1.47 ACRES
FILL BELOW HTL	15,000 CY
FILL BELOW MHW	2,490 CY
SURFACE AREA HTL	1.69 ACRES
SURFACE AREA MHW	1.48 ACRES

TIDAL DATUM

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

Drawings\2010\101018 - Shakmanof Cove Quarry\Permit-K2_Revise\101018-03.dwg

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE BARGE LOADING RAMP AND DOLPHINS.

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

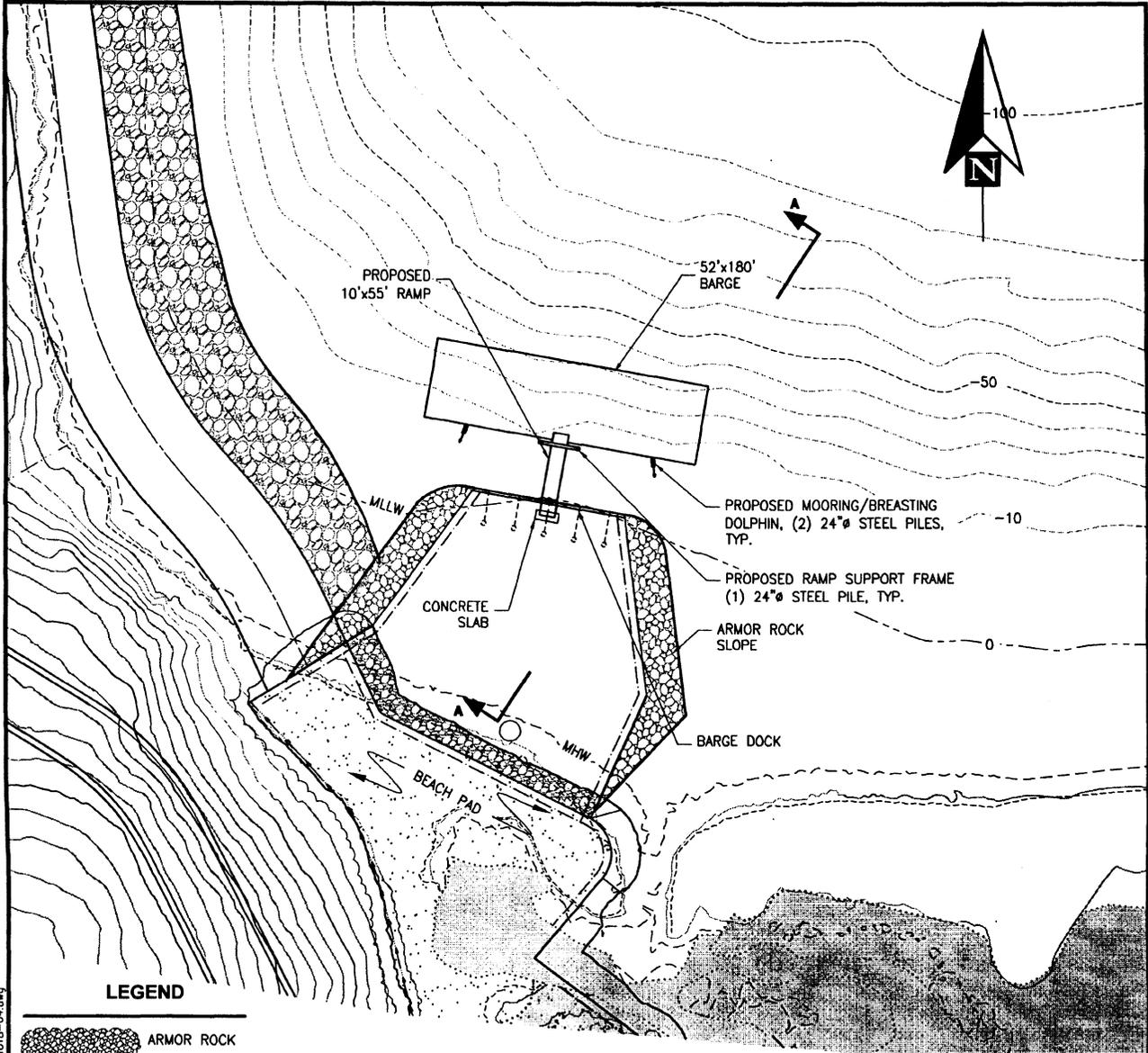
PREVIOUSLY PERMITTED BARGE DOCK PLAN & SHORELINE ROAD #POA-2010-496-M1

KONIAG INC
194 ALIMAQ DR
KODIAK, ALASKA 99615

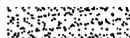
SHAKMANOF COVE QUARRY MODIFICATION POA-2010-496-M2

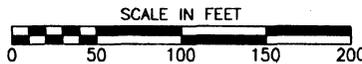
ON: KODIAK ISLAND, AK
AT: WEST SHORE OF SHAKMANOF COVE

JULY 2013 SHEET **3** of **5**



LEGEND

-  ARMOR ROCK
-  WETLANDS FROM WETLAND DELINEATION
-  BEACH PAD



TIDAL DATUM

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

Drawings\2010\101018 - Shakmanof Cove Quarry\Permit - M2_ Revised\101018 - D4.dwg

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE BARGE LOADING RAMP AND DOLPHINS.

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

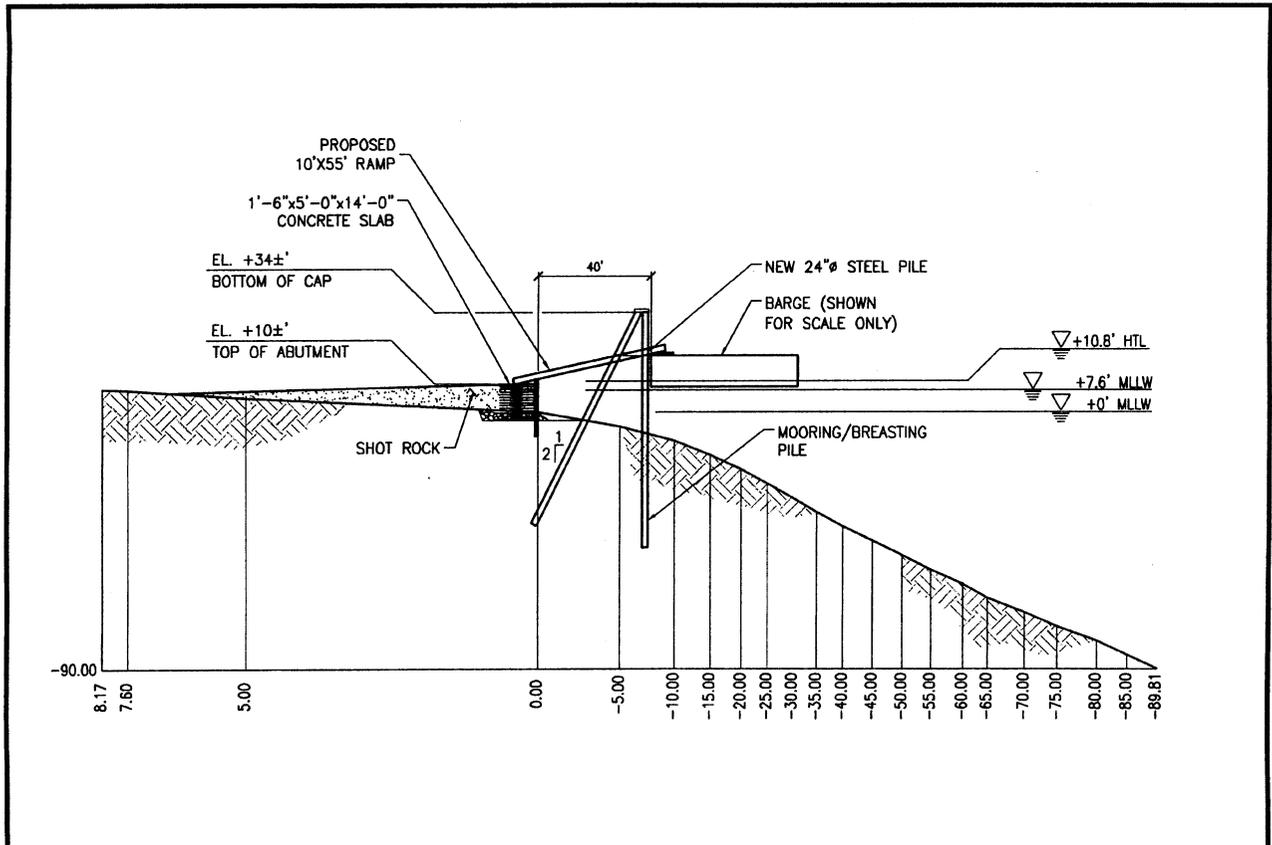
PROPOSED BARGE LANDING RAMP AND DOLPHINS PLAN

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

SHAKMANOF COVE QUARRY MODIFICATION POA-2010-496-M2

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

JULY 2013 SHEET **4 of 5**



SECTION A-A

Drawings\2010\101018 - Shakmanof Cove Quarry\Permit-M2_Revise\101018-05.dwg

PROPOSED ACTIVITY: MODIFY EXISTING PERMIT TO INCLUDE BARGE LOADING RAMP AND DOLPHINS.

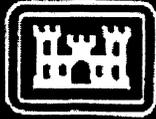
DATUM: 0.0' MLLW
 PROJECT LOCATION:
 SEC. 13 & 24, T26S, R21W, S.M.

TYPICAL SECTION

KONIAG INC
 194 ALIMAQ DR
 KODIAK, ALASKA 99615

**SHAKMANOF COVE
 QUARRY
 MODIFICATION
 POA-2010-496-M2**

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



This notice of authorization must be
conspicuously displayed at the site of work.

United States Army Corps of Engineers
SHAKMANOF COVE

A permit to: TO CONSTRUCT AN ADDITIONAL 2 BREASTING DOLPHINS CONSISTING OF TWO 24-INCH STEEL PIPE PILES, ONE VERTICAL AND ONE BATTERED; CONSTRUCT A REMOVABLE 25-FOOT STEEL RAMP SUPPORTED BY TWO 24-INCH STEEL PIPE PILES; AND TO PLACE AN ADDITIONAL 0.02-ACRE OF FILL BELOW THE HTL

at: LATITUDE 57.9159° N., LONGITUDE -152.6073° W.; APPROXIMATELY FOUR MILES SOUTHWEST OF THE COMMUNITY OF OUZINKIE, NEAR KODIAK, ALASKA.

has been issued to: KONIAG, INC.

on: OCT 29 2013 and expires on: AUGUST 31, 2016

Address of Permittee: 194 ALIMAQ DRIVE, KODIAK, ALASKA 99615

Permit Number:

POA-2010-496-M2


FOR: District Commander
Heather Boyer
Project Manager
REGULATORY DIVISION