



US Army Corps  
of Engineers  
Alaska District

Regulatory Division (1145)  
Juneau Regulatory Field Office  
8800 Glacier Highway, Suite 106  
Juneau, Alaska 99801-8079

# Public Notice of Application for Permit

**PUBLIC NOTICE DATE:** September 25, 2008  
**EXPIRATION DATE:** October 10, 2008  
**REFERENCE NUMBER:** POA-2005-1171  
**WATERWAY:** Fish Creek

Interested parties are hereby notified that a Department of the Army (DA) permit application has been received for work in waters of the United States (U.S.) as described below and shown on the enclosed project drawings.

Comments on the described work, with the reference number, should reach this office no later than the expiration date of this Public Notice to become part of the record and be considered in the decision. Please contact **Mr. Randal P. Vigil** at (907) 790-4490, or by email at [randal.p.vigil@usace.army.mil](mailto:randal.p.vigil@usace.army.mil) if further information is desired concerning this notice.

**APPLICANT:** Eaglecrest Ski Area, City and Borough of Juneau, 155 South Seward Street, Juneau, Alaska 99801-1397

**AGENT:** Sigrid Dahlberg, Carson Dorn, Inc., 712 West 12<sup>th</sup> Street, Suite 1, Juneau, Alaska 99801; phone number (907)586-4447.

**LOCATION:** The project site is located within the NW  $\frac{1}{4}$ , SW  $\frac{1}{4}$ , SE  $\frac{1}{4}$  of Section 30, T. 41 S., R. 67 E., Copper River Meridian; USGS Quad Map Juneau B-2; Latitude 58.280° N., Longitude 134.518° W.; Eaglecrest Ski Area, in Juneau, Alaska.

**PURPOSE:** The applicant's stated purpose is to extend the Nordic skiing season and improve safety and access at Eaglecrest Ski Area.

**PROPOSED WORK:** Discharge approximately 4,550 cubic yards of  $\frac{3}{4}$  inch minus and 3-inch crushed rock, granular material, and concrete into approximately 1.928 acres of wetlands, including the installation of 12 each 12 or 15-inch diameter corrugated or metal culverts. All work would be performed in accordance with the enclosed plan (Sheets 1-21), dated 09/21/08.

**ADDITIONAL INFORMATION:** The 11 existing culvert crossing on the existing unimproved Nordic Ski trail would be replaced under the authority of Nationwide Permit No. 3, Maintenance (a). Repair, rehabilitation, or replacement of previously authorized, currently serviceable structures or fills.

**MITIGATION:** The applicant has proposed the following mitigation measures to reduce impacts to the aquatic environment: Reduce the running surface of the proposed Nordic Ski Trail from 16-feet wide to 10-feet wide on the un-culverted trail sections, resulting in a 13-foot wide footprint on the un-culverted trail base rather than a 19-foot wide footprint. The proposed trail surface width of 10-feet is the minimum width that will support the travel of the 14-foot wide snowcat. The culverted sections of the trail would be 16-feet wide to provide safe passage of the snowcat without damaging the culverts, grooming equipment, or surrounding wetlands.

Where possible, the Waterworks Access Trail has been reduced to 10 feet or 8 feet (standard width is 12 feet), reducing wetland impact by 0.33 acres.

The Race Training Center would be sited to use areas of existing fill and uplands. Alternative designs considered for the proposed structure were one and two story buildings. By revising the design to a three-story configuration, the footprint of the building has been reduced from 0.5 acres to 0.17 acres (a reduction of 0.33 acres), and located on the existing site so that only 0.08 acres of wetlands would be filled as part of the proposed work.

The Beginner Chairlift base terminal would be located in area previously filled during the original Eaglecrest Ski Area parking lot construction, reducing the wetland impact by 0.10 acres.

**WATER QUALITY CERTIFICATION:** A permit for the described work will not be issued until a certification or waiver of certification, as required under Section 401 of the Clean Water Act (Public Law 95-217), has been received from the Alaska Department of Environmental Conservation.

**COASTAL ZONE MANAGEMENT ACT CERTIFICATION:** Section 307(c)(3) of the Coastal Zone, Management Act of 1972, as amended by 16 U.S.C. 1456(c)(3), requires the applicant to certify the described activity affecting land or water uses in the Coastal Zone complies with the Alaska Coastal Management Program. A permit will not be issued until the Division of Coastal and Ocean Management, Department of Natural Resources has concurred with the applicant's certification.

**CULTURAL RESOURCES:** The latest published version of the Alaska Heritage Resources Survey (AHRs) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There are registered or eligible properties in the vicinity of the worksite. They have been designated JUN-0756. Because it has been determined to be outside of the project area, no further action is required. Consultation of the AHRs constitutes the extent of cultural resource investigations by the District Commander at this time. Any comments SHPO may have concerning presently unknown archeological or historic data that may be lost or destroyed by work under the requested permit will be considered in our final assessment of the described work.

**ENDANGERED SPECIES:** No threatened or endangered species are known to use the project area.

Preliminarily, the described activity will not affect threatened or endangered species, or modify their designated critical habitat, under the Endangered Species Act of 1973 (87 Stat. 844). This application is being coordinated with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (NMFS). Any comments they may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

**ESSENTIAL FISH HABITAT:** The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

Preliminarily, the described activity will not affect EFH in the project area. This Public Notice initiates EFH consultation with the NMFS. Any comments or recommendations they may have concerning EFH will be considered in our final assessment of the described work.

**TRIBAL CONSULTATION:** The Alaska District fully supports tribal self-governance and government-to-government relations between Federally recognized Tribes and the Federal government. Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This Public Notice serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Commander during the public comment period.

**PUBLIC HEARING:** Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing.

**EVALUATION:** The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. The outcome of the general balancing process would determine whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur. The decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Commander determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public

interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

AUTHORITY: This permit will be issued or denied under the following authority:

(X) Discharge dredged or fill material into waters of the United States - Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).

Project drawings, Notice of Application for Certification of Consistency with the Alaska Coastal Management Program, and Notice of Application for State Water Quality Certification are enclosed with this Public Notice.

District Commander  
U.S. Army, Corps of Engineers

Enclosures

# STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF COASTAL AND OCEAN MANAGEMENT

DIVISION OF COASTAL AND OCEAN MANAGEMENT  
POST OFFICE BOX 111030, MS 1030  
JUNEAU, ALASKA 99811-1030  
PHONE: (907) 465-3562/FAX: (907) 465-3075

NOTICE OF APPLICATION  
FOR  
CERTIFICATION OF CONSISTENCY WITH THE  
ALASKA COASTAL MANAGEMENT PROGRAM

Notice is hereby given that a request is being filed with the Division of Coastal and Ocean Management for a consistency determination, as provided in Section 307(c)(3) of the Coastal Zone Management Act of 1972, as amended [16 U.S.C. 1456(c)(3)], that the project described in the Corps of Engineers Public Notice No. POA-2005-1171, Fish Creek, will comply with the Alaska Coastal Management Program and that the project will be conducted in a manner consistent with that program.

This project is being reviewed for consistency with the Alaska Coastal Management Program. Written comments about the consistency of the project with the applicable ACMP statewide standards and district policies must be submitted to the Division of Coastal and Ocean Management (DCOM). For information about this consistency review, contact DCOM at the address or phone number above, or visit the ACMP web site at <http://www.alaskacoast.state.ak.us//Projects/projects.html>.

# STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION  
DIVISION OF WATER  
401 Certification Program  
Non-Point Source Water Pollution Control Program

DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
WQM/401 CERTIFICATION  
410 WILLOUGHBY AVENUE  
JUNEAU, ALASKA 99801-1795  
PHONE: (907) 465-5321/FAX: (907) 465-5274

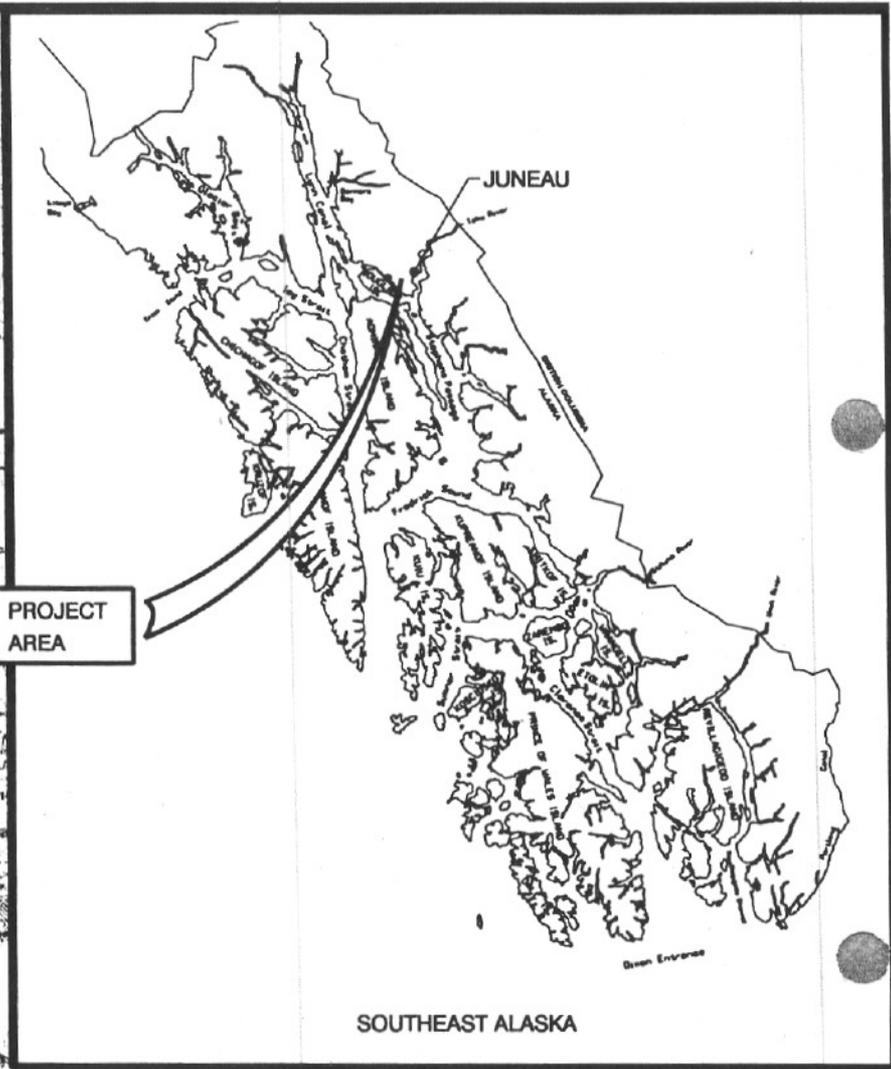
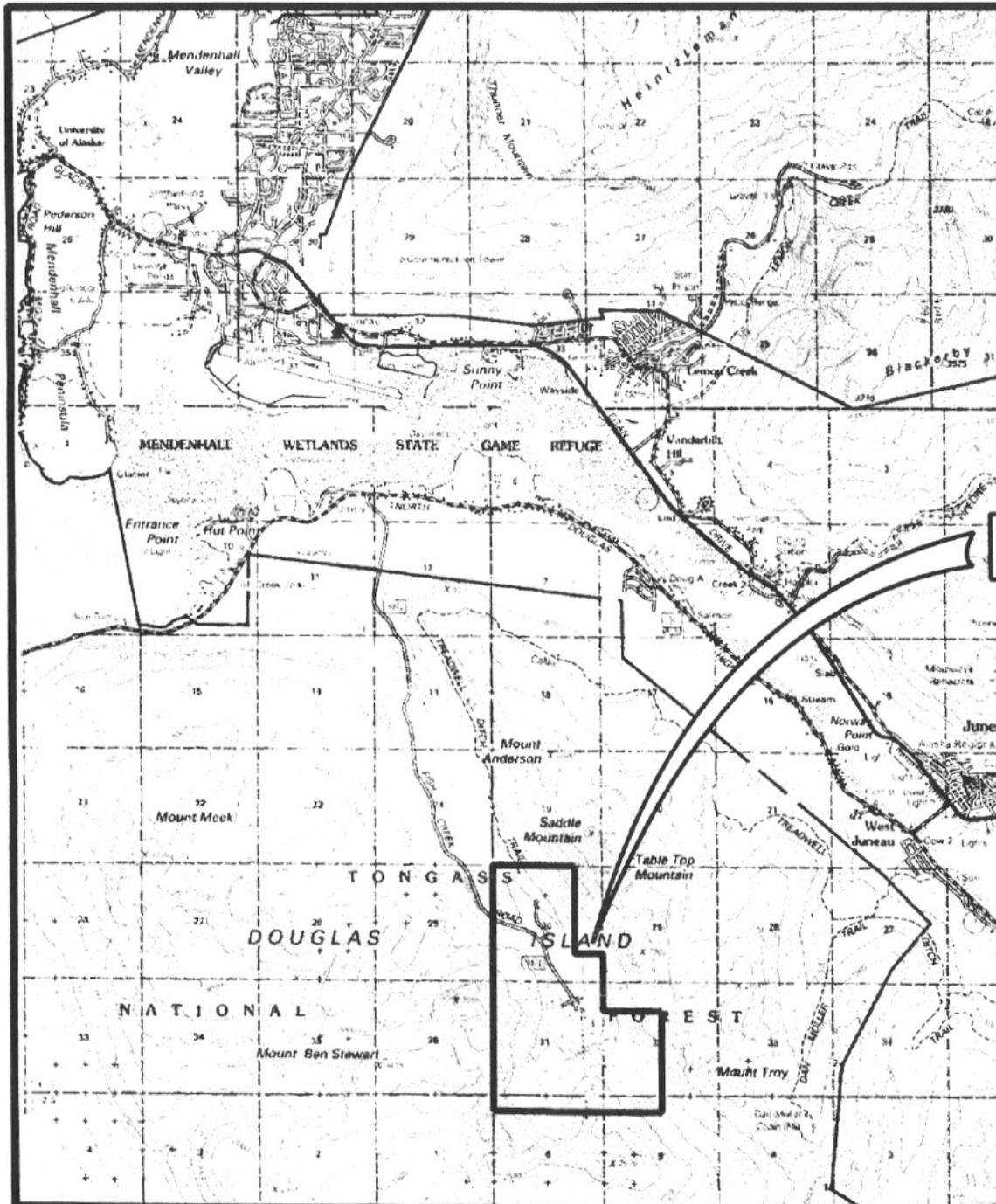
NOTICE OF APPLICATION  
FOR  
STATE WATER QUALITY CERTIFICATION

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into navigable waters, in accordance with Section 401 of the Clean Water Act of 1977 (PL95-217), also must apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. By agreement between the U.S. Army Corps of Engineers and the Department of Environmental Conservation, application for a Department of the Army permit to discharge dredged or fill material into navigable waters under Section 404 of the Clean Water Act also may serve as application for State Water Quality Certification.

Notice is hereby given that the application for a Department of the Army Permit described in the Corps of Engineers' Public Notice No. POA-2005-1171, Fish Creek, serves as application for State Water Quality Certification from the Department of Environmental Conservation.

After reviewing the application, the Department may certify there is reasonable assurance the activity, and any discharge that might result, will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. The Department also may deny or waive certification.

Any person desiring to comment on the project, with respect to Water Quality Certification, may submit written comments to the address above by the expiration date of the Corps of Engineer's Public Notice.



MAP SOURCE: USGS/USFS "JUNEAU (8-2), ALASKA"

PURPOSE:	PROVIDE AN IMPROVED NORDIC SKI TRAIL SURFACE AT EAGLECREST	VICINITY MAP	EAGLECREST
ELEVATION:	1100'	<b>POA-2005-1171, Fish Creek City &amp; Borough of Juneau Eaglecrest Ski Area Improvements Sheet 1 of 21 09/21/08</b>	
DATUM:	MLLW		
LOCATION:	SEC 31, T41S COPPER RIVER		



# NORDIC LOWER LOOP TRAIL

FISH CREEK ROAD

FISH CREEK

## LEGEND

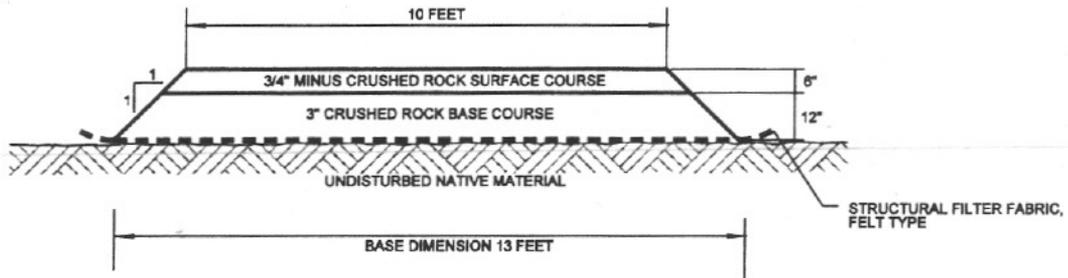
- CULVERT
- DRAINAGE
- E EXISTING CULVERT

PURPOSE: PROVIDE AN IMPROVED  
NORDIC SKI TRAIL SURFACE  
AT EAGLECREST SKI AREA.  
ELEVATION: 1100'  
DATUM: MLLW  
LOCATION: SEC 31, T41S R67E,  
COPPER RIVER MERIDIAN

NORDIC LOWER LOOP MAP  
SCALE: 1" = 350'  
APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

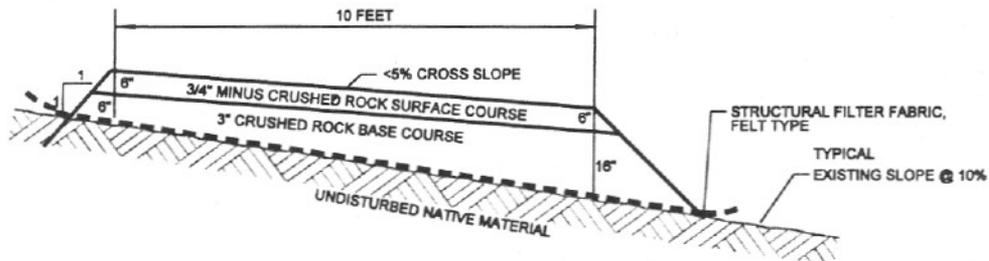
POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 2 of 21  
09/21/08

CLEARING WIDTH: 20 FEET  
 GRADE:  $\pm 5\%$   
 CURVE RADIUS:  $\geq 50$  FEET



TYPICAL TRAIL CROSS SECTION- LEVEL GROUND

CLEARING WIDTH: 20 FEET  
 GRADE:  $\pm 5\%$   
 CURVE RADIUS:  $\geq 50$  FEET



TYPICAL TRAIL CROSS SECTION- SLOPED GROUND

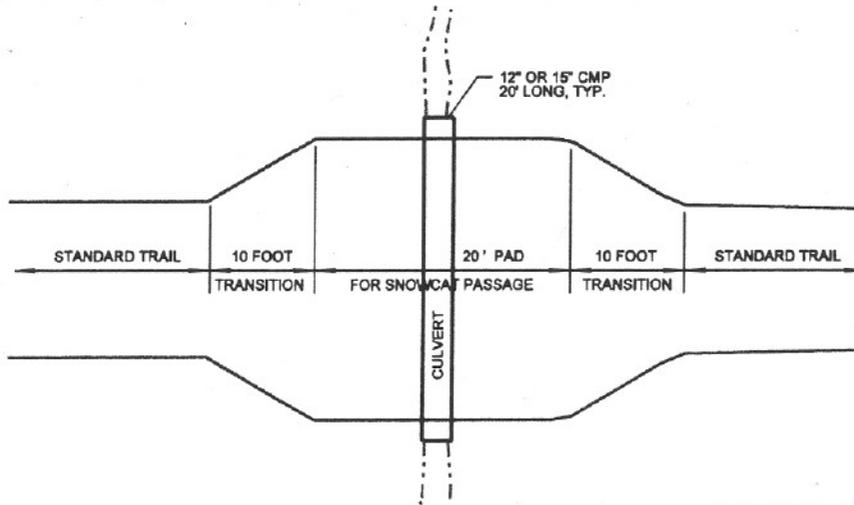
PURPOSE: PROVIDE AN IMPROVED  
 NORDIC SKI TRAIL SURFACE  
 AT EAGLECREST SKI AREA.  
 ELEVATION: 1100'  
 DATUM: MLLW  
 LOCATION: SEC 31, T41S R67E,  
 COPPER RIVER MERIDIAN

TYPICAL TRAIL SECTIONS

NOT TO SCALE  
 APPLICATION BY:  
 EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

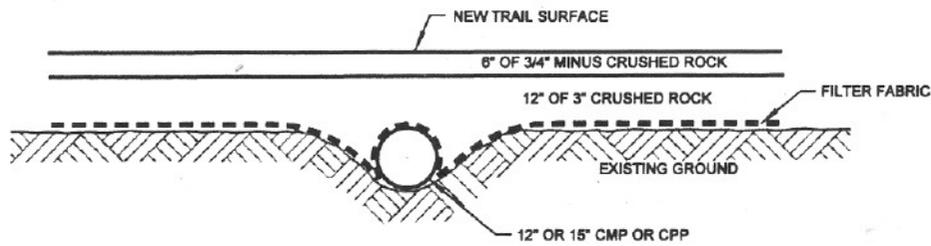
POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 3 of 21  
 09/21/08

# PLAN

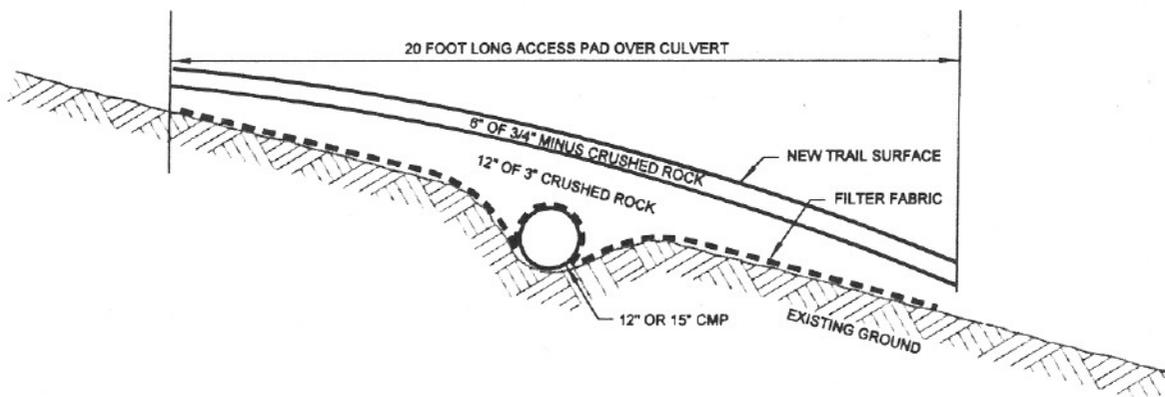


TYPICAL CULVERT INSTALLATION - LEVEL OR SLOPED GROUND

# SECTION



TYPICAL CULVERT INSTALLATION - LEVEL GROUND



TYPICAL CULVERT INSTALLATION - SLOPED GROUND

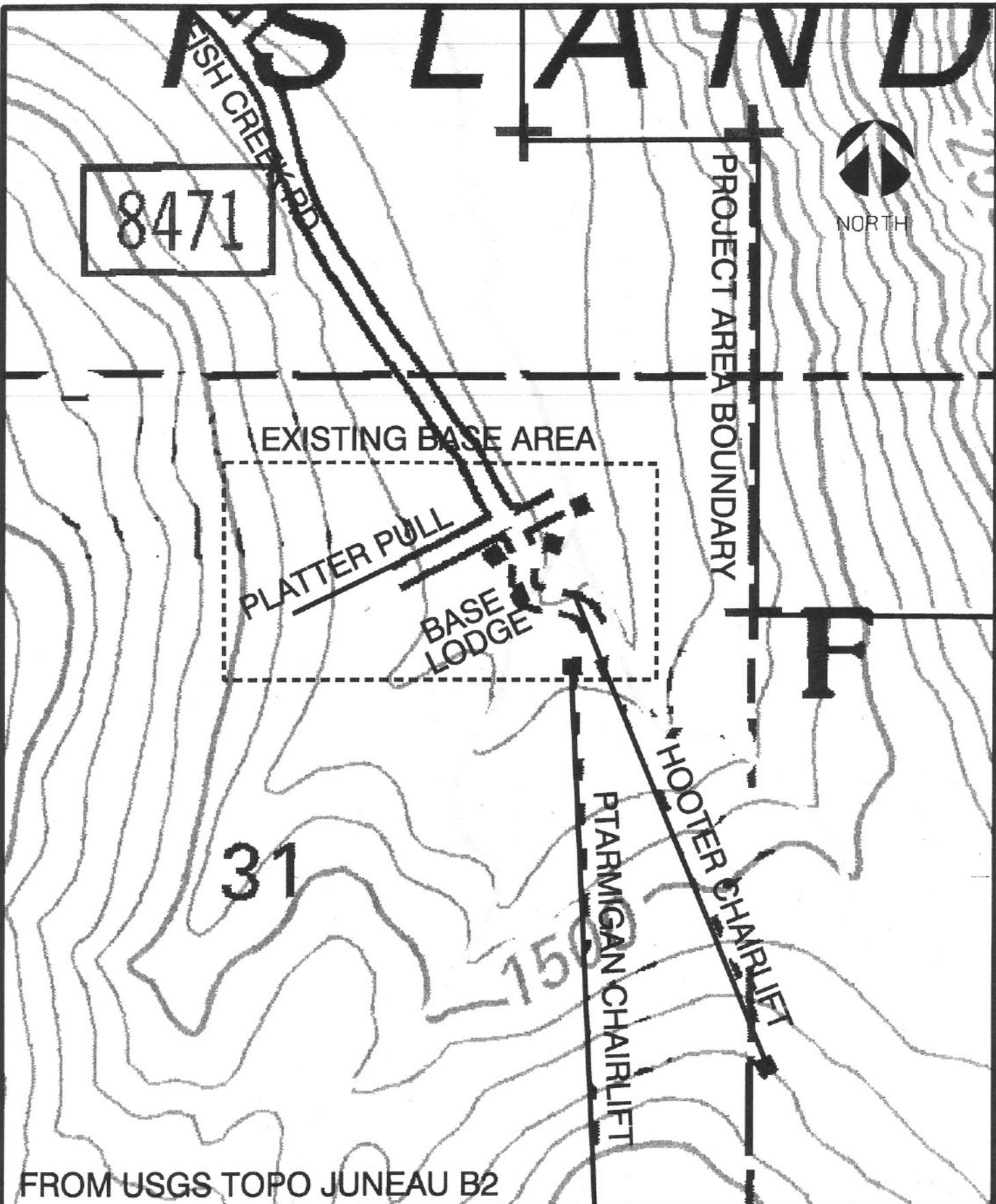
PURPOSE: PROVIDE AN IMPROVED NORDIC SKI TRAIL SURFACE AT EAGLECREST SKI AREA.  
 ELEVATION: 1100'  
 DATUM: MLLW  
 LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

## CULVERT DETAILS, PLAN & SECTION

NOT TO SCALE

APPLICATION BY:  
 EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 4 of 21  
 09/21/08



FROM USGS TOPO JUNEAU B2

PURPOSE: IMPROVE MAINTENANCE  
ACCESS AND SAFETY  
AT EAGLECREST SKI AREA.

ELEVATION: 1100'

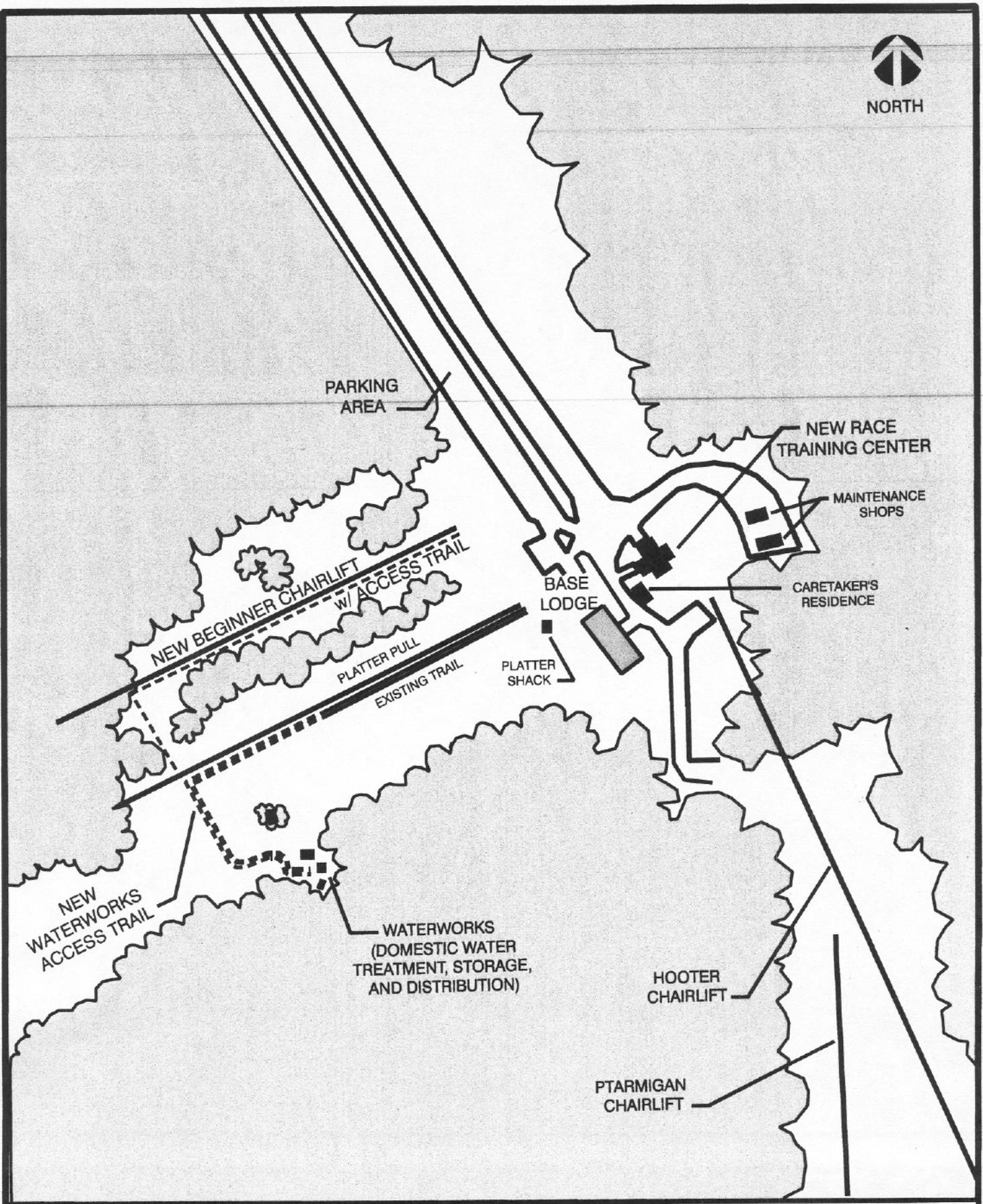
DATUM: MLLW

LOCATION: SEC 31, T41S R67E,  
COPPER RIVER MERIDIAN

BASE AREA PROJECT LOCATION  
SCALE: 1" = 720'

APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 5 of 21  
09/21/08



PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.  
ELEVATION: 1100'  
DATUM: MLLW  
LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

BASE AREA MAP  
SCALE: 1" = 250'  
APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 6 of 21  
09/21/08



BEGINNER CHAIRLIFT

PARKING AREA

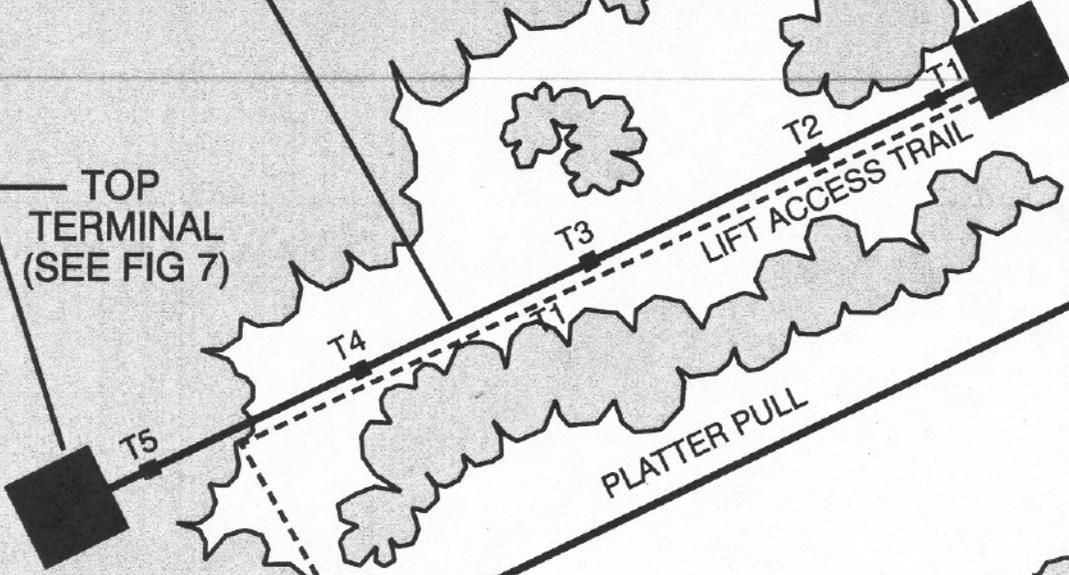
BASE TERMINAL (SEE FIG 11)

TOP TERMINAL (SEE FIG 7)

BASE LODGE

PLATTER SHACK

WATERWORKS



PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.

ELEVATION: 1100'

DATUM: MLLW

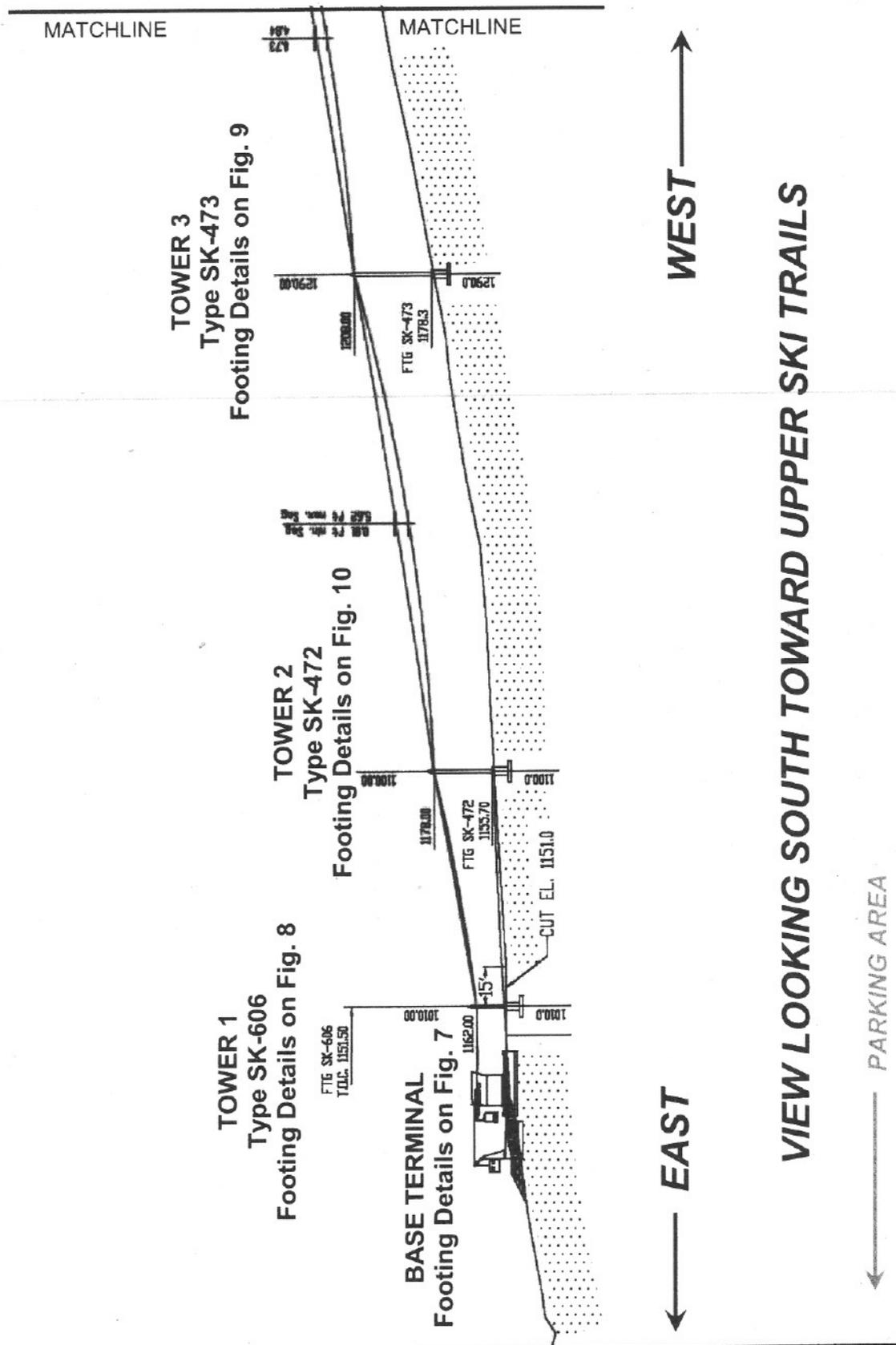
LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

### BEGINNER CHAIR LAYOUT

SCALE: 1" = 150'

APPLICATION BY: EAGLECREST SKI AREA CITY & BOROUGH OF JUNEAU (CBJ) 155 SOUTH SEWARD STREET JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek City & Borough of Juneau Eaglecrest Ski Area Improvements Sheet 7 of 21 09/21/08



PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.

ELEVATION: 1100'

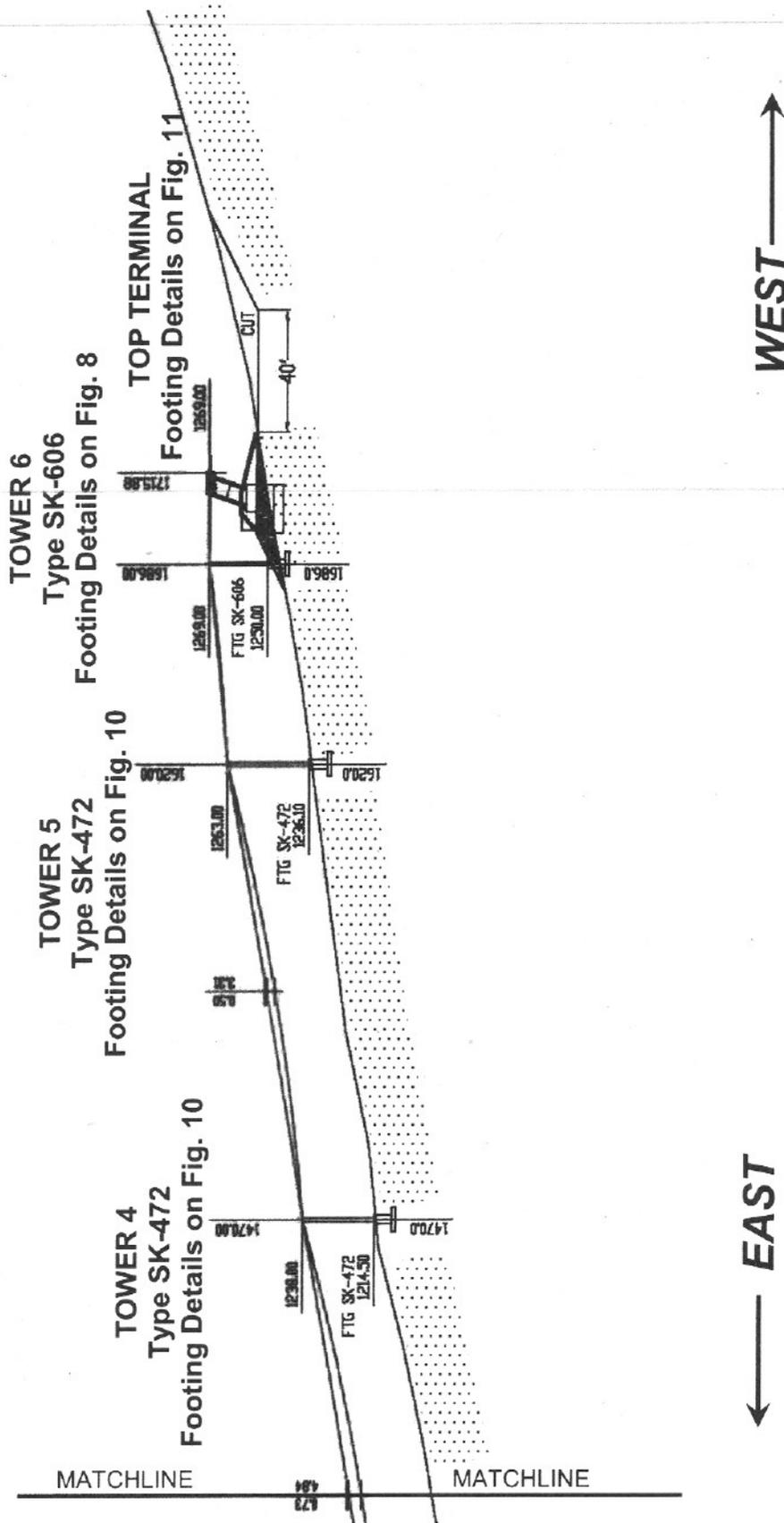
DATUM: MLLW

LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

**BEGINNER CHAIRLIFT PROFILE**  
 Base Terminal to Midpoint

APPLICATION BY:  
 EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 8 of 21  
 09/21/08



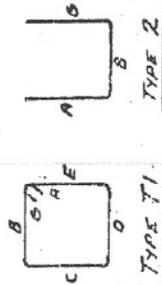
VIEW LOOKING SOUTH TOWARD UPPER SKI TRAILS

PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.  
 ELEVATION: 1100'  
 DATUM: MLLW  
 LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

BEGINNER CHAIRLIFT PROFILE  
 Midpoint to Top Terminal  
 APPLICATION BY:  
 EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

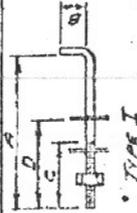
POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 9 of 21  
 09/21/08

REINFORCING SCHEDULE



Bar Size	Qty	Type	A	B	C	D	E	F	REMARKS
2 #4	9-8	498	5	2-2 1/2	2-2 1/2	2-2 1/2	2-2 1/2	5	
7 #4	10-10	410	5	2-6	2-6	2-6	2-6	5	
1 #6	7-7	677	2	6-10	9				
2 #4	5-6	556							

ANCHOR BOLT SCHEDULE



Anchor Bolt Size	Qty	Type	A	B	C	D	E	F	REMARKS
4 #14	7-6	AB26	I	6-6	1-0	1-4	1-4	1-4	

ENGINEERING

APR 27 1979

3	1/2" x 1/2" x 1/2"								
2	1/2" x 1/2" x 1/2"								
1	1/2" x 1/2" x 1/2"								
0	1/2" x 1/2" x 1/2"								

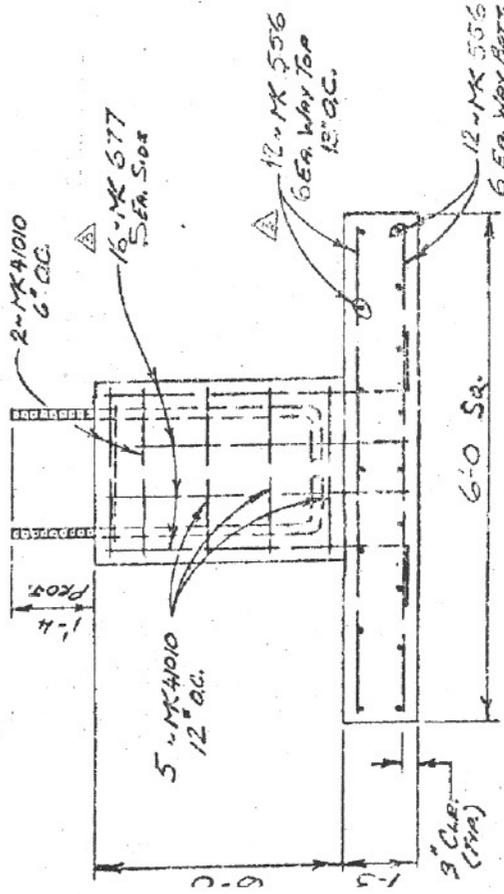
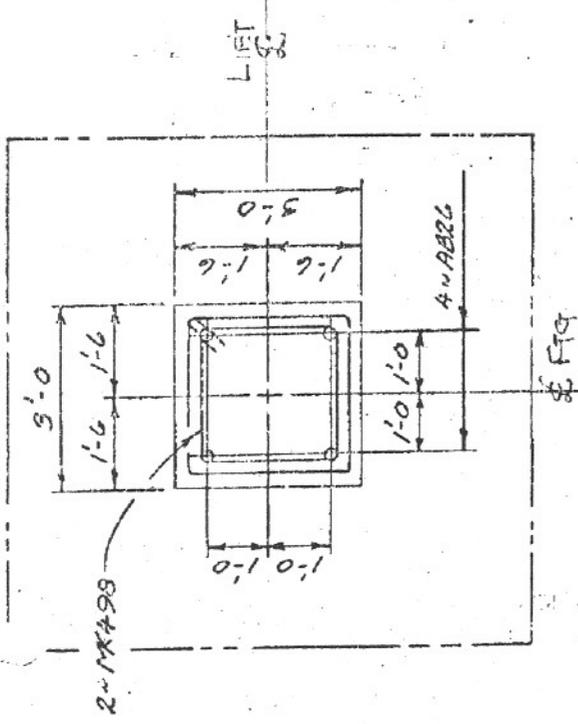
SPECIAL TWR. FOOTING

SCALE NAME  
DATE 6-30-78

HALL SKILIFT CO., INC.  
WATERTOWN, N.Y.

NEXT ASSEMBLY

PART NO. SK606



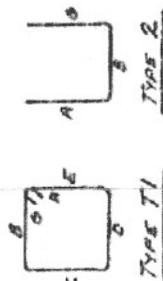
NOTES ON DWS SK 936 REV. 1

PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.  
ELEVATION: 1100'  
DATUM: MLLW  
LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

BEGINNER CHAIRLIFT FOUNDATION TOWERS 1 & 6, TYPE SK-606  
APPLICATION BY: EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek City & Borough of Juneau Eaglecrest Ski Area Improvements Sheet 10 of 21 09/21/08

REINFORCING SCHEDULE



NO	Size	Qty	Remarks
1	4	9-5	4# A226
2	4	10-10	4# A226
3	4	7-7	4# A226
4	4	7-6	4# A226

ANCHOR BOLT SCHEDULE

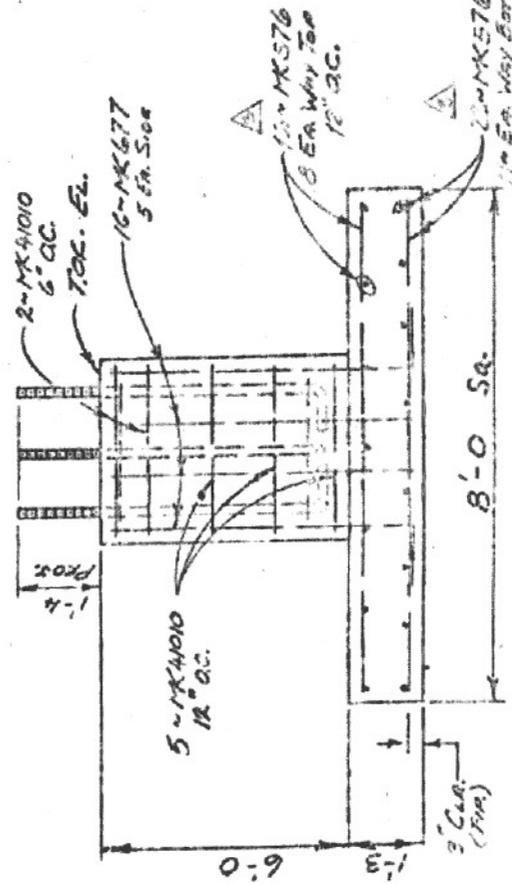
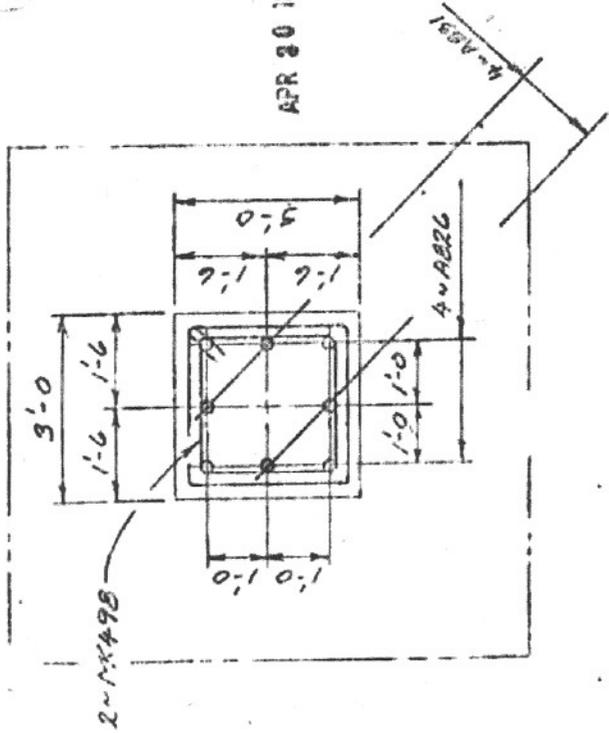


NO	Size	Qty	Remarks
1	1/2"	7-6	7# A226
2	1/2"	7-6	7# A226

SPECIAL TOWER FTG.

SCALE	NONE
DATE	7/13/68
NEXT ASSEMBLY	
PART NO.	SK473

APR 30 1979



NOTES ON DWG. SK 473 APPEND

PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.  
 ELEVATION: 1100'  
 DATUM: MLLW  
 LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

BEGINNER CHAIRLIFT FOUNDATION  
 TOWER 3, TYPE SK-473  
 APPLICATION BY:  
 EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

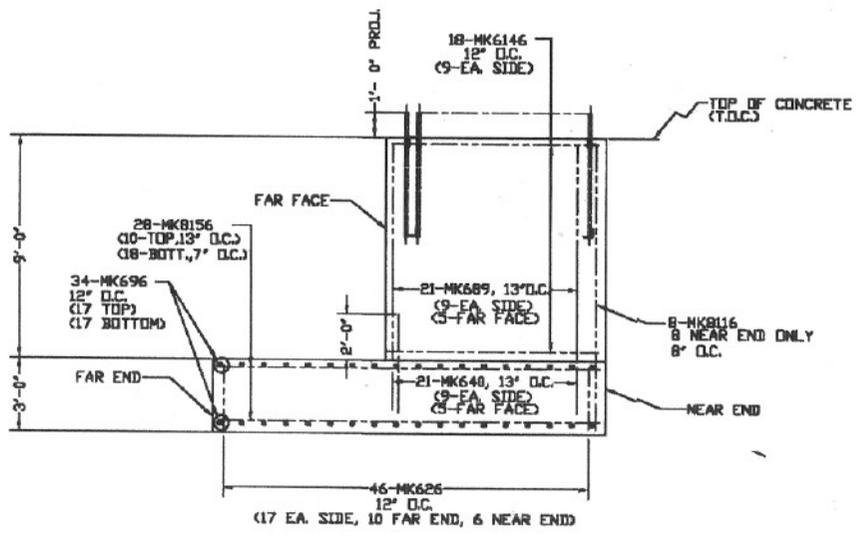
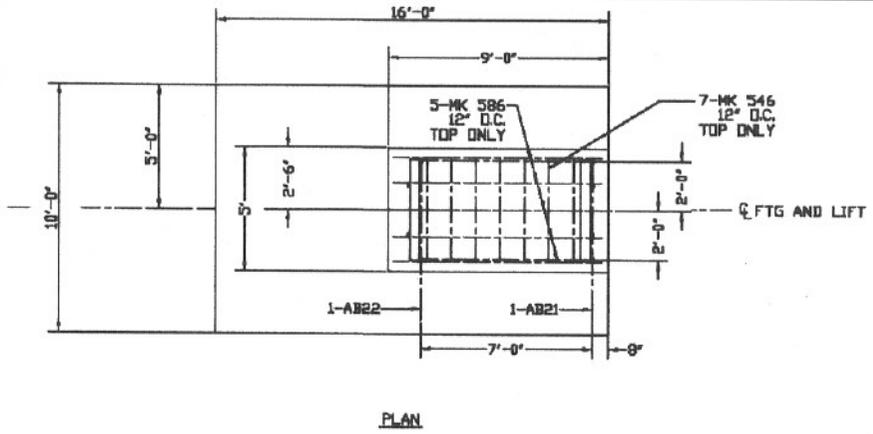
POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 11 of 21  
 09/21/08



PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA  
 ELEVATION: 1100'  
 DATUM: MILLW  
 LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

BEGINNER CHAIRLIFT FOUNDATION  
 TOP TERMINAL  
 APPLICATION BY: EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBA)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 13 of 21  
 09/21/08



FOOTING 101515  
 ELEVATION  
 VOLUME = 32.8 CU YDS

REINFORCING SCHEDULE, FOOTING 101515



QTY.	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	REMARKS
7	5	4'-6"	546	STR								
5	5	8'-6"	586	STR								
46	6	2'-6"	626	STR								
21	6	4'-0"	640	STR								
21	6	10'-9"	689	STR								
18	6	14'-6"	6146	2	3'-0"	8'-6"					3'-0"	
34	6	9'-6"	696	STR								
8	8	13'-6"	8136	STR								
28	8	15'-6"	8156	STR								

ANCHOR BOLT SCHEDULE

QTY.	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	REMARKS
1			AB21			CAST(Y)						WELDMENT
1			AB22			CAST(Y)						WELDMENT

GENERAL NOTES:

- KEEP 3" MINIMUM CLEARANCE BETWEEN REINFORCING AND SURFACE OF CONCRETE.
- CONCRETE COMPRESSIVE STRENGTH 3000 P.S.I. AT 28 DAYS.
- MINIMUM SOIL BEARING VALUE 3000 P.S.F. FOOTING DEPTHS SHOWN ARE MINIMUM BUT SOIL BEARING VALUE MUST BE OBTAINED. IF SOIL BEARING VALUE IS NOT OBTAINED NOTIFY YOUR ENGINEER BEFORE PLACING CONCRETE.
- REINFORCING STEEL ( EXCEPT 1/4" TIES) DEFORMED, GRADE 40 OR 60 BILLET STEEL BARS (ASTM DESIGNATION A615).
- BACKFILL WITH COMPACTED EARTH ACCORDING TO DRAWING 101514.
- ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI-1994 CODE, OR LATEST ISSUE.
- 3/4" CHAMFER EXPOSED CORNERS.
- COLD JOINTS ARE PERMITTED IN 9' x 5' COLUMN.

LOCATION: EAGLECREST SKI AREA  
 JUNEAU, ALASKA

CONFIRMATION ID NO.

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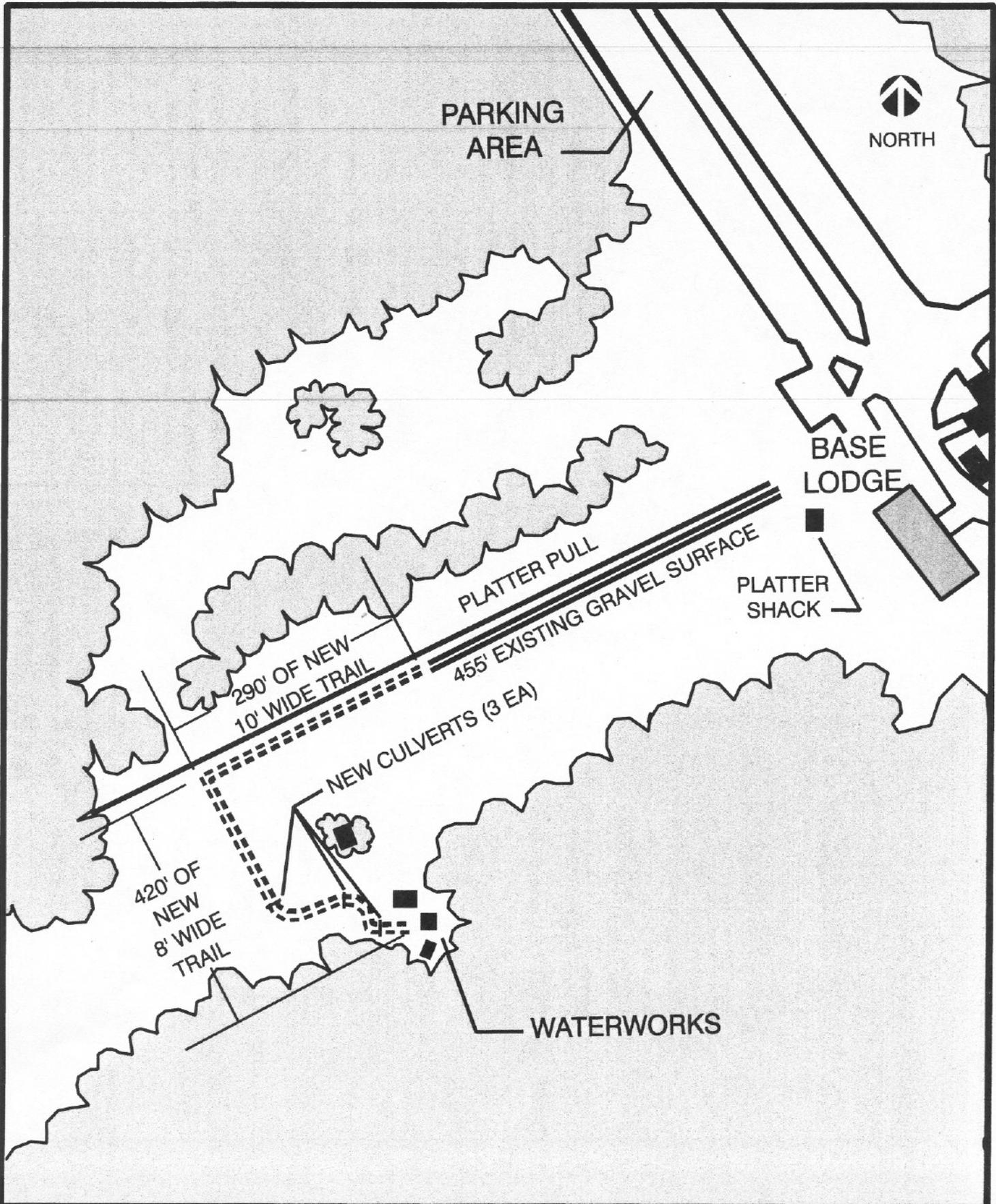
DESIGNED BY: LLW 7/31/08  
 DRAWN BY: SA0001780  
 CHECKED BY: 1014740

INSTALLATION: 0808 NO. SA0001484 04/08

**Doppelmayr CTEC**  
 FOOTING, RETURN TERMINAL  
 RELOCATION OF HALL JOB 1889  
 EAGLECREST #4

Scale NONE 0' SIZE

Sheet 1  
 WTR 101515

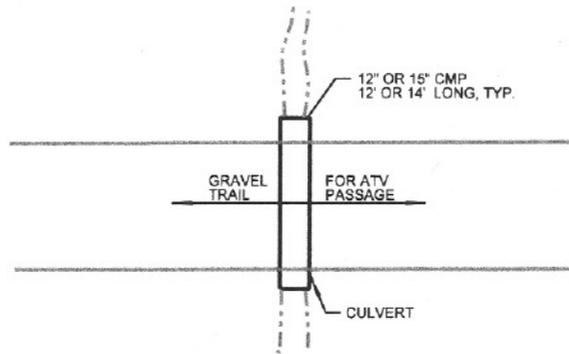


**PURPOSE:** IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.  
**ELEVATION:** 1100'  
**DATUM:** MLLW  
**LOCATION:** SEC 31, T41S R67E, COPPER RIVER MERIDIAN

**WATERWORKS TRAIL PLAN VIEW**  
**SCALE:** 1" = 150'  
**APPLICATION BY:** EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

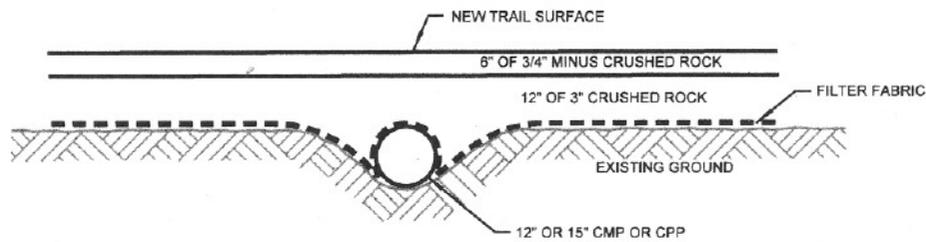
POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 14 of 21  
 09/21/08

# PLAN

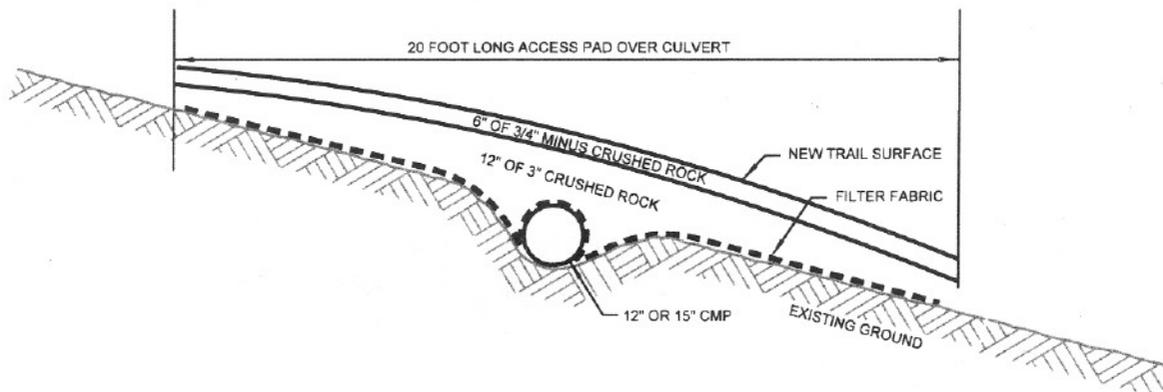


TYPICAL CULVERT INSTALLATION - LEVEL OR SLOPED GROUND  
NOT TO SCALE

# SECTION



TYPICAL CULVERT INSTALLATION - LEVEL GROUND  
NOT TO SCALE



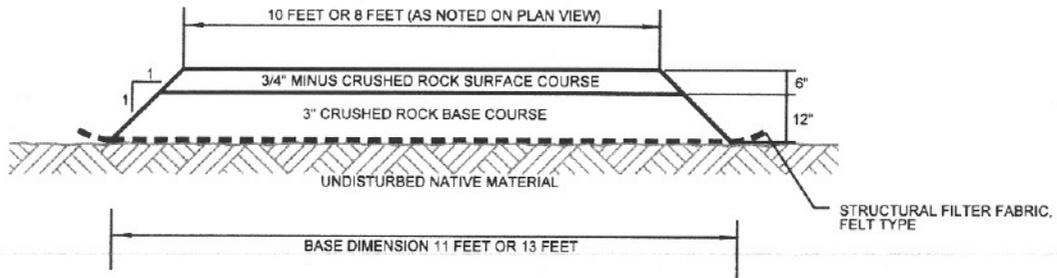
TYPICAL CULVERT INSTALLATION - SLOPED GROUND  
NOT TO SCALE

PURPOSE: IMPROVE MAINTENANCE  
ACCESS AND SAFETY  
AT EAGLECREST SKI AREA.  
ELEVATION: 1100'  
DATUM: MLLW  
LOCATION: SEC 31, T41S R67E,  
COPPER RIVER MERIDIAN

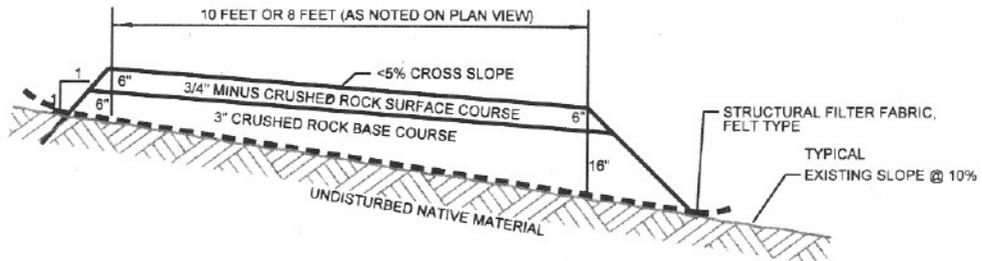
## WATERWORKS ACCESS ROAD CULVERT DETAILS, PLAN & SECTION

APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 15 of 21  
09/21/08



TYPICAL TRAIL CROSS SECTION- LEVEL GROUND  
NOT TO SCALE



TYPICAL TRAIL CROSS SECTION- SLOPED GROUND  
NOT TO SCALE

PURPOSE: IMPROVE MAINTENANCE  
ACCESS AND SAFETY  
AT EAGLECREST SKI AREA.

ELEVATION: 1100'

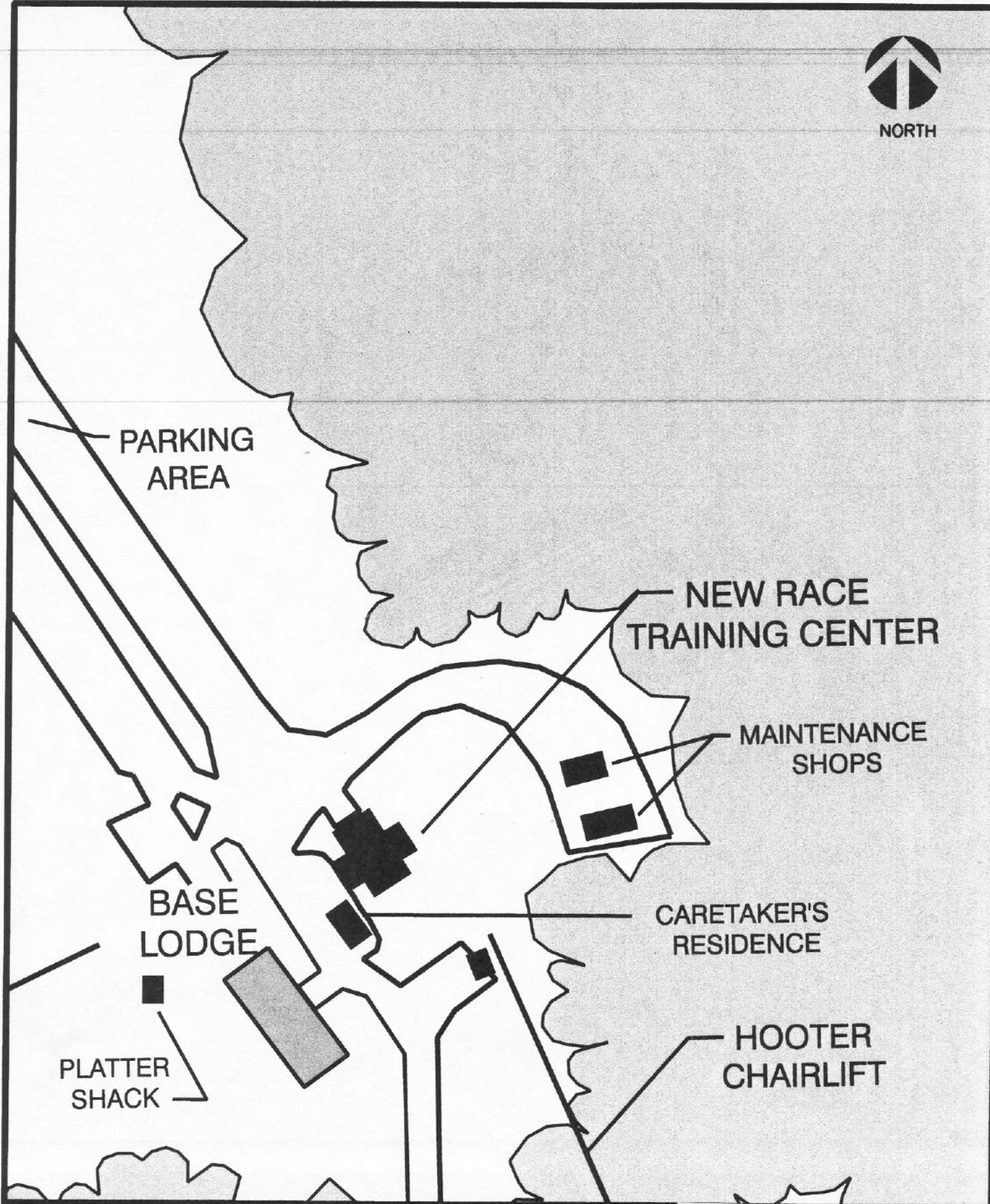
DATUM: MLLW

LOCATION: SEC 31, T41S R67E,  
COPPER RIVER MERIDIAN

WATERWORKS ACCESS ROAD  
TYPICAL TRAIL SECTIONS

APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 16 of 21  
09/21/08



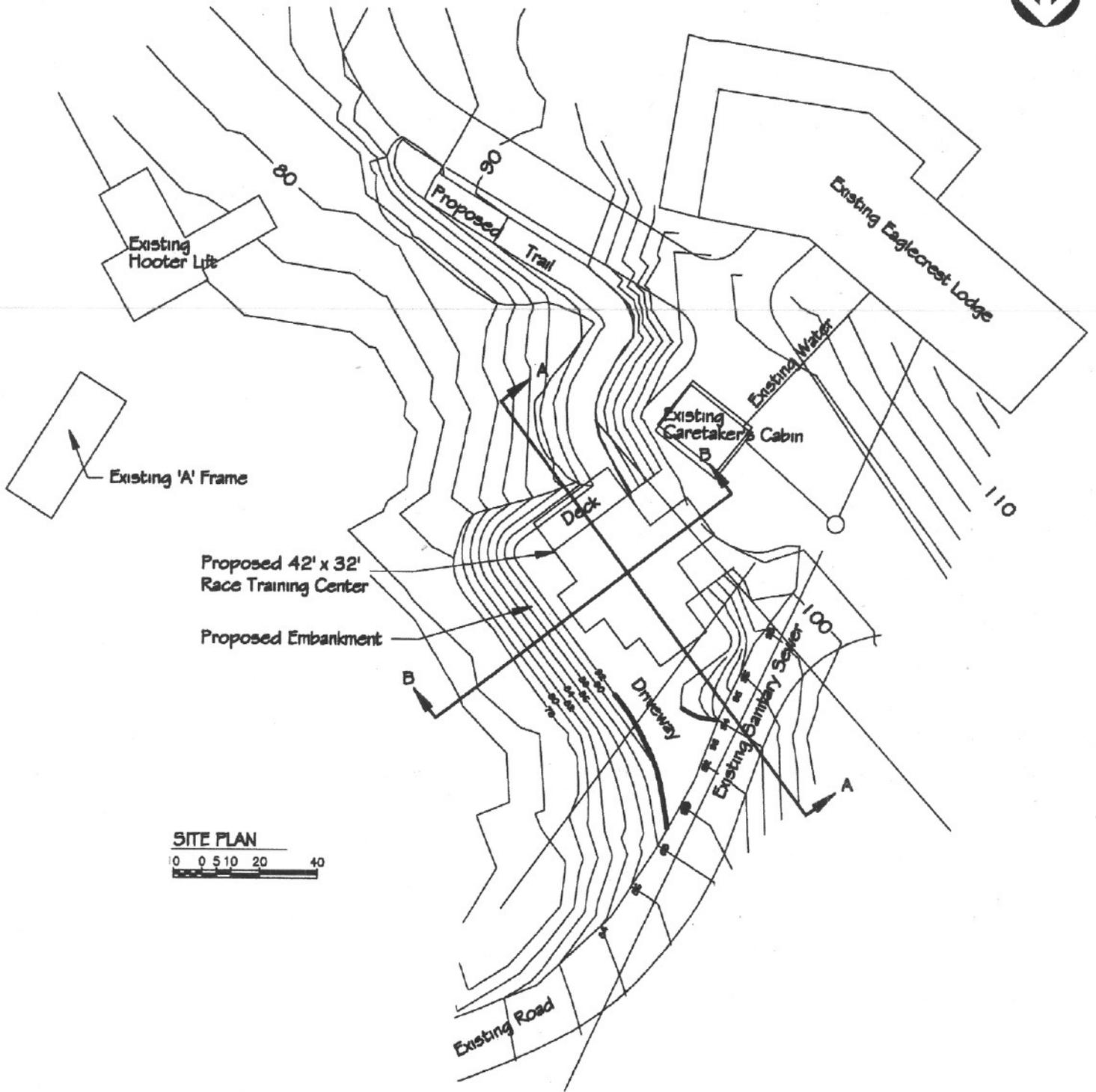
PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.  
ELEVATION: 1100'  
DATUM: MLLW  
LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

**RACE TRAINING CENTER LOCATION**

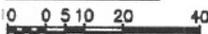
SCALE 1" = 125'  
APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 17 of 21  
09/21/08

NORTH



**SITE PLAN**



**PURPOSE:** IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.

**ELEVATION:** 1100'

**DATUM:** MLLW

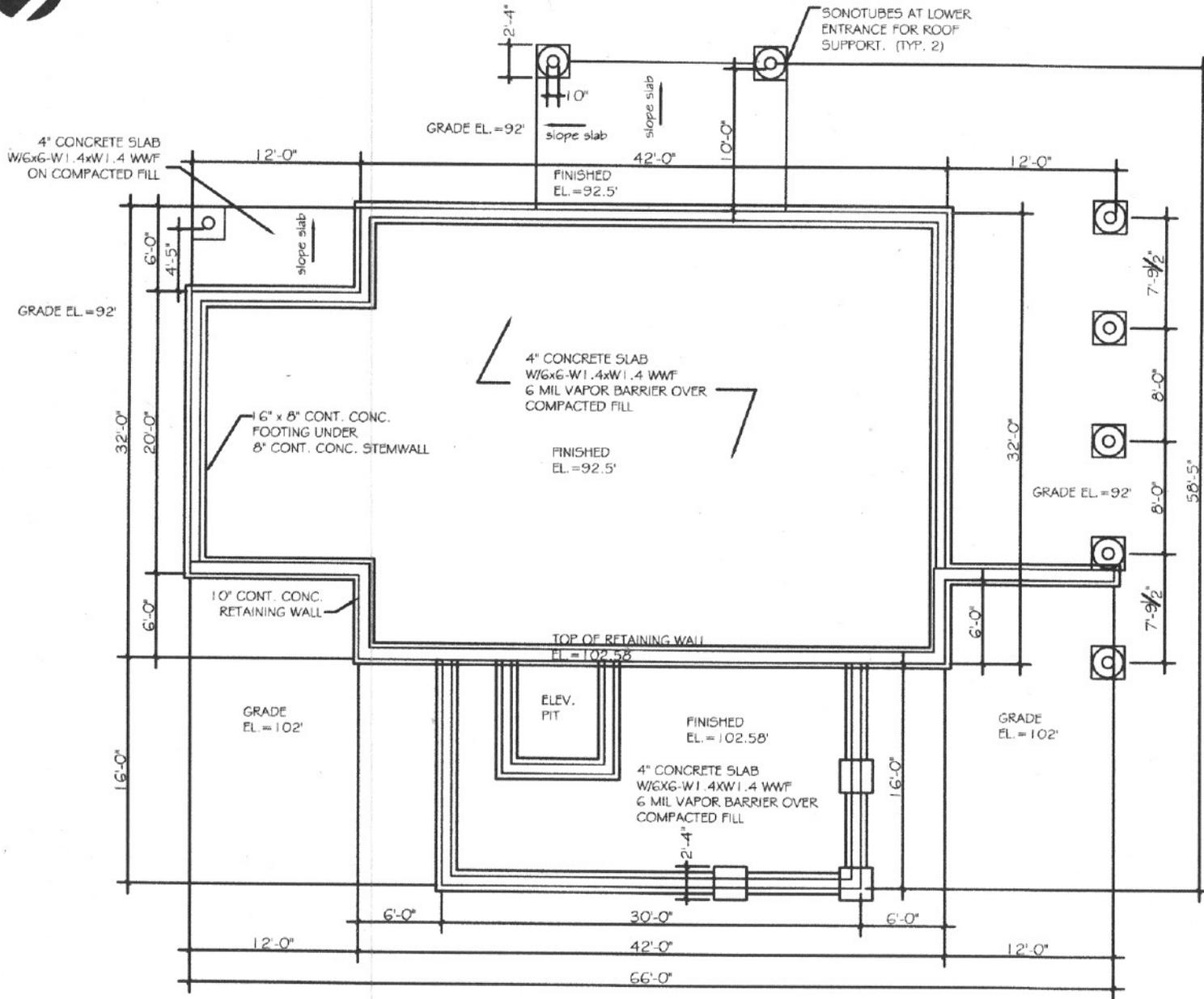
**LOCATION:** SEC 31, T41S R67E, COPPER RIVER MERIDIAN

**RACE TRAINING CENTER SITE PLAN**

**APPLICATION BY:** EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
 City & Borough of Juneau  
 Eaglecrest Ski Area Improvements  
 Sheet 18 of 21  
 09/21/08

NORTH



**FOUNDATION PLAN**

SCALE: 3/16" = 1'-0"

POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 19 of 21  
09/21/08

**RACE TRAINING CENTER  
FOUNDATION PLAN**

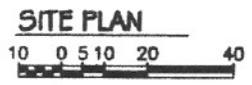
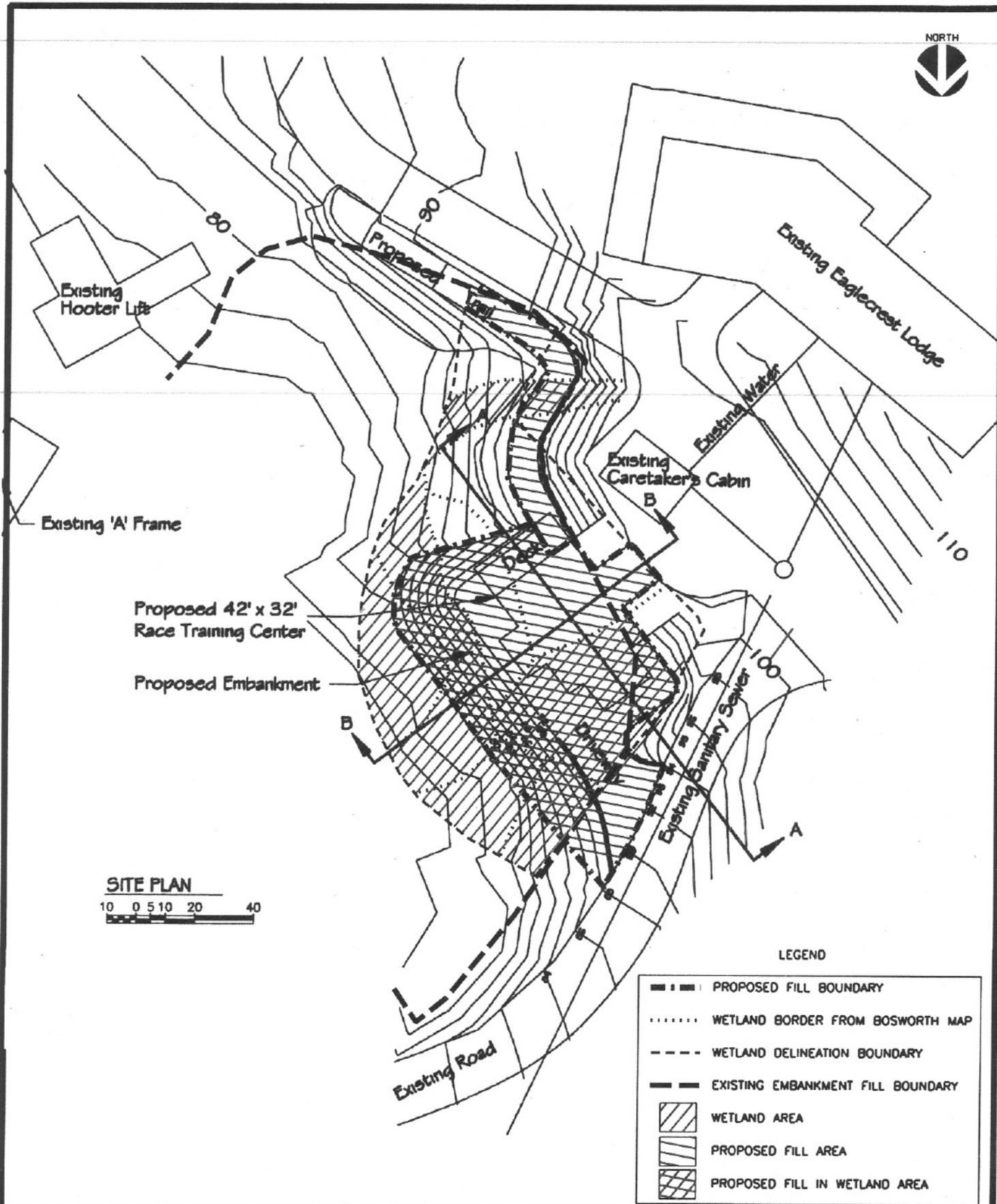
APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBU)  
155 SOUTH SEWARD STREET  
JUNEAU, ALASKA 99801

PURPOSE:  
IMPROVE MAINTENANCE  
ACCESS AND SAFETY  
AT EAGLECREST SKI AREA.

ELEVATION:  
1100'

DATUM:  
MLLW

LOCATION:  
SEC 31, T41S R67E,  
COPPER RIVER MERIDIAN



LEGEND

- PROPOSED FILL BOUNDARY
- ..... WETLAND BORDER FROM BOSWORTH MAP
- - - WETLAND DELINEATION BOUNDARY
- EXISTING EMBANKMENT FILL BOUNDARY
- [Diagonal Hatching] WETLAND AREA
- [Horizontal Hatching] PROPOSED FILL AREA
- [Cross-hatching] PROPOSED FILL IN WETLAND AREA

PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.

ELEVATION: 1100'

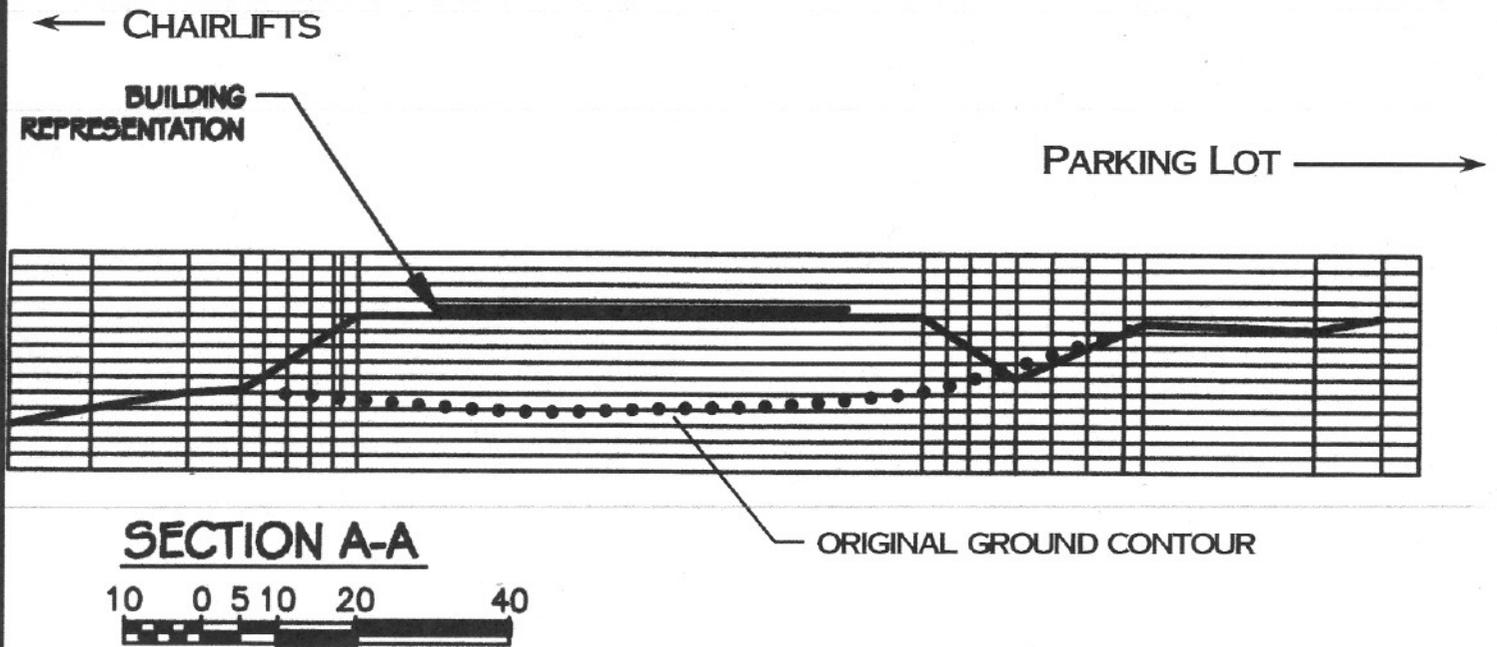
DATUM: MLLW

LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

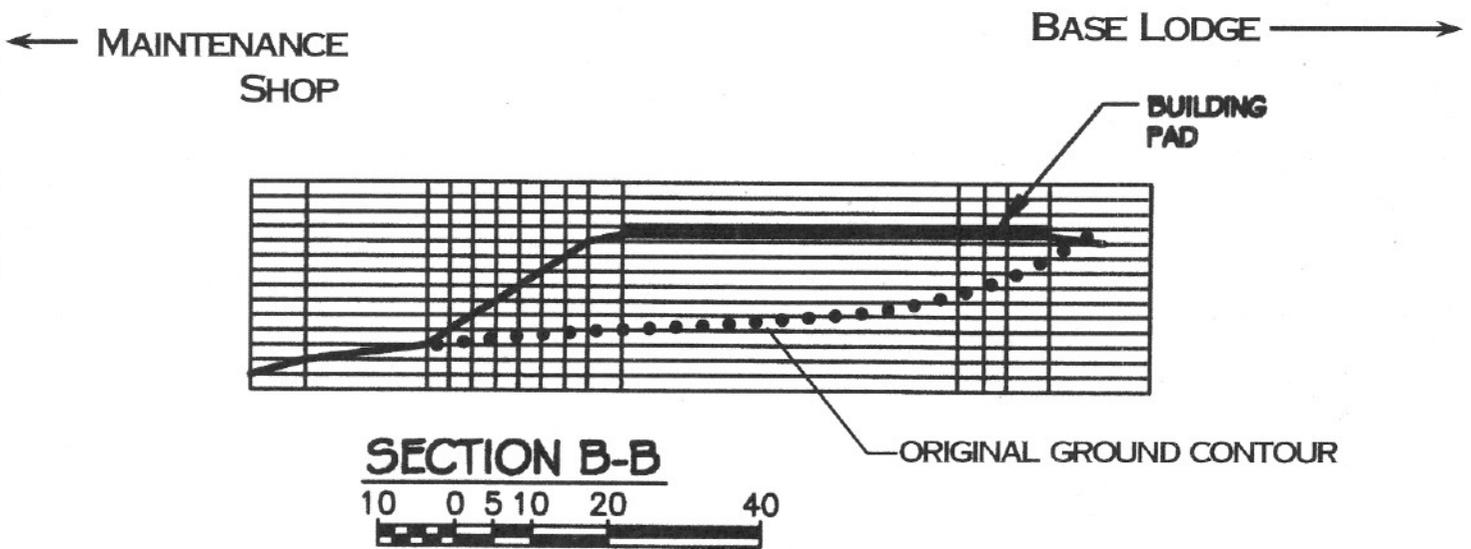
**RACE TRAINING CENTER WETLAND MAP OVERLAY OF SITE**

APPLICATION BY:  
EAGLECREST SKI AREA  
CITY & BOROUGH OF JUNEAU (CBJ)  
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POA-2005-1171, Fish Creek  
City & Borough of Juneau  
Eaglecrest Ski Area Improvements  
Sheet 21 of 21  
09/21/08



**SECTION LOOKING WEST**



**SECTION LOOKING SOUTH**

PURPOSE: IMPROVE MAINTENANCE ACCESS AND SAFETY AT EAGLECREST SKI AREA.

ELEVATION: 1100'

DATUM: MLLW

LOCATION: SEC 31, T41S R67E, COPPER RIVER MERIDIAN

**RACE TRAINING CENTER SECTIONS**

APPLICATION BY:  
 EAGLECREST SKI AREA  
 CITY & BOROUGH OF JUNEAU (CBJ)  
 155 SOUTH SEWARD STREET  
 JUNEAU, ALASKA 99801

POA-2005-1171, Fish Creek  
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 Sheet 20 of 21  
 09/21/08