



DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
P.O. BOX 6898
ELMENDORF AFB, ALASKA 99506-0898

REPLY TO
ATTENTION OF:

May 8, 2009

District Commander
POA-1981-320-M22

Mr. Tom Carson
Carson Dorn, Inc.
712 West 12th Street
Juneau, Alaska 99801-1574

Dear Mr. Carson:

Enclosed are two copies of Department of the Army permit POA-1981-320-M22, Gastineau Channel, which would authorize work in and the placement of fill material into waters of the United States. The project site is located within Section 36, T. 40 S., R. 65 E.; and Sections 31 and 32, T. 40 S., R. 66 E., Copper River Meridian; USGS Quad Map Juneau B-2; Latitude 58.354° N., Longitude 134.584° W.; 1873 Shell Simmons Drive, in Juneau, Alaska.

The Alaska Department of Environmental Conservation has issued a Certificate of Reasonable Assurance pursuant to Section 401 of the Clean Water Act for your project and found it to be in accordance with the Alaska Water Quality Standards. In addition, the Alaska Department of Natural Resources has certified that your project is consistent with the Alaska Coastal Management Program. These certifications are attached to the Department of the Army permit and will become a part of this permit when it is finalized.

Additionally, we have enclosed a Notification of Administrative Appeal Options and Process and Request for Appeal form regarding this Department of the Army Permit (see section labeled "Initial Proffered Permit").

If you accept the conditions of the enclosed permit, please sign and date both copies and return them to us. The permit will not be valid until we have returned a finalized copy to you. It should be understood that this is not an authorization to commence construction. No work is to be performed in Gastineau Channel and/or the adjacent wetlands until you have received a validated copy of the permit.

Nothing in this letter shall be construed as excusing you from compliance with other Federal, State, or local statutes, ordinances, or regulations which may affect this work.

You may contact Mr. Randal P. Vigil, at the Juneau Regulatory Field Office, by phone at (907) 790-4490, if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin J. Wilson", is written over a horizontal line.

Kevin J. Wilson
Colonel, Corps of Engineers
District Commander

Enclosures

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Juneau International Airport		File Number: POA-1981-320-M-22 (Gastineau Channel)	Date: May 14 2009
Attached is:			See Section below
XX	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)		A
	PROFFERED PERMIT (Standard Permit or Letter of Permission)		B
	PERMIT DENIAL		C
	APPROVED JURISDICTIONAL DETERMINATION		D
	PRELIMINARY JURISDICTIONAL DETERMINATION		E

THIS REQUEST FOR APPEAL FORM MUST BE RECEIVED BY: JULY 15 2009

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at: <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the District Engineer. Your objections must be received by the District Engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the District Engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or, (c) not modify the permit, having determined that the permit should be issued as previously written. After evaluating your objections, the District Engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the Division Engineer. This form must be received by the Division Engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the Division Engineer. This form must be received by the Division Engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION (JD): You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the Division Engineer. This form must be received by the Division Engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the Preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

In order for a Request For Appeal to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the Notice of Appeal Process. It is not necessary to submit a Request For Appeal form to the Division office if you do not object to the decision.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

Victor Ross
Alaska District Corps of Engineers
CEPOA-RD
P.O. Box 6898
Elmendorf AFB, AK 99506-0898
(907) 753-2779
(800) 478-2712 (toll free in AK)

If you only have questions regarding the appeal process you may also contact:

Commander
USAED, Pacific Ocean Division
ATTN: CEPOD-PDC/Linda Hihara-Endo, P.E.
Building 525
Fort Shafter, HI 96858-5440

To submit this form, mail to the address above

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date: _____

Telephone number: _____

DEPARTMENT OF THE ARMY PERMIT

Permittee: Juneau International Airport

Permit No.: POA-1981-320-M-22 (Gastineau Channel)

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:

Discharge approximately 550,000 cubic yards of fill material into 55.7 acres of waters of the United States (U.S.), including special aquatic sites. Install structures below the plane of mean high water (approximate elevation +15.4 feet above the 0.0-foot contour). Dredge approximately 900,000 cubic yards of material from below mean high water in 94.4 acres. The authorized work is for the purpose of constructing a runway safety area with navigational lighting, new airport operation and maintenance facilities, and the implementation of a Wildlife Hazard Management Plan. The East End Slough connection work including dredging, filling, and additional disturbance is not authorized.

All work will be performed in accordance with the attached plan, sheets **1-51**, dated **July 15, 2008**, except for the East End Slough construction detail.

Project Location:

Section 36, T. 40 S., R. 65 E.; Sections 31 and 32, T. 40 S., R. 66 E.; and Section 1, T. 41 S., R. 66 E., Copper River Meridian; USGS Quad Map Juneau B-2; Latitude 58.355° N., Longitude 134.585° W.; 1873 Shell Simmons Drive, in Juneau, Alaska.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **May 31, 2014**. If you find that you need more time to complete the authorized activity, submit your request 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. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
2. You must install and maintain, at your expense, any safety lights and signals prescribed by the United States Coast Guard (USCG), through regulations or otherwise, on your authorized facilities. The USCG may be reached at the following address and telephone number: Commander (dpw), 17th Coast Guard District, P.O. Box 25517, Juneau, Alaska 99802; or by telephone at (907) 463-2272.
3. The permittee understands and agrees that, if future operations by the United States 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 United States. No claim shall be made against the United States on account of any such removal or alteration.
4. To provide compensatory mitigation for the unavoidable impacts of 86.09 acres of waters of the U.S., including wetlands, the permittee shall pay an In-Lieu-Fee (ILF), to the Southeast Alaska Land Trust, (telephone: 907-586-3100), and submit proof of ILF payment to the Corps of Engineers, Juneau Regulatory Field Office, Attn: Randal P. Vigil, 8800 Glacier HWY, STE 106, Juneau, AK 99081. Proof of payment to Southeast Alaska Land Trust shall be supplied to the Corps of Engineers prior to construction under this permit. The amount of compensatory mitigation is as follows:
 - a. The permanent filling of 55.76 acres of medium to high functionally-rated waters and special aquatic sites shall be mitigated for at a 3:1 ratio.
 - b. The conversion of 30.33 acres of medium to high functionally-rated special aquatic sites to low functioning deepwater habitat by means of dredging shall be mitigated for at a 2:1 ratio.
5. The East End Slough connection work including dredging, filling, and additional disturbance is not authorized by this permit.
6. All in-water work below the plane of the high tide line (approximate elevation +20.8 feet above the 0.0 foot contour) shall only be performed during low tidal stages (a six hour period beginning three hours before low tide and ending three hours past low tide). All in-water work below the plane of the ordinary high water mark of Jordan and/or Duck Creek shall be performed during periods of low flow or while the site is de-watered.
7. All necessary erosion control features shall be implemented, maintained and monitored daily during and after construction to prevent sedimentation into waters of the United States, including wetlands. Filter fabric, straw bale dams, or other effective methods (floating silt curtain in tidal waters) shall be immediately employed in all areas where wetland soil is disturbed or fill is discharged, including mechanical landclearing, during construction, and shall remain in place until the disturbed wetland soil and fill is permanently stabilized. Disturbed wetland soil and exposed fill shall be stabilized by vegetation treatment (seeding or planting) at the earliest practicable date, preferably in the same growing season. Any disturbance to wetlands as a result of the authorized activity including operation of heavy equipment, beyond the authorized project footprint shall be restored to preconstruction contours.
8. All vegetation treatment (seeding and planting) shall be performed using species under the following order of preference to prevent establishment of invasive species: 1. species native to the project site; 2.

species native to the project area; 3. species native to the State of Alaska 4. non-native species. If native species are not available, only non-native species that are known to not reproduce in the general project area shall be used for revegetation. Monitoring and remedial vegetation treatment shall be performed until 95% vegetation cover is achieved.

9. All fill material for the authorized work shall be clean, free from toxic pollutants in toxic amounts. Material used for construction or discharge shall not consist of unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.).

10. All excavated materials not used as fill material for components of the Juneau International Airport Improvement Project, including stockpiling, and material dredged from waters below the plane of mean high water (approximate elevation +15.4 feet above the 0.0 foot contour) not used as fill material for components of the project shall be disposed of at an upland location or approved disposal site.

11. Prior to initiation of construction, the permitted project footprint and any applicable waterbody setbacks, wetland buffers, and/or other avoidance areas shall be clearly delineated, using stakes, flags, fencing, or other similar measures. No equipment used for activities permitted under this permit shall be operated, stored, or serviced in wetlands, and no mechanized land clearing or discharge of fill material may occur, even temporarily, in wetlands or other waters beyond the project footprint or within avoidance areas.

12. Measures shall be implemented to attenuate flows, remove oil, grease, and other petroleum products from the project's stormwater collection system, if one is required by the Alaska Department of Environmental Conservation.

13. Natural drainage patterns shall be maintained in the project area using appropriate ditching, culverts, storm drain systems, and/or other measures, without introducing ponding or drying. Excessive ponding and/or dewatering of areas adjacent to fills indicate non-compliance with this condition.

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).

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

(DATE)

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

Colonel Kevin J. Wilson
DISTRICT COMMANDER

(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)

STATE OF ALASKA

SARAH PALIN, GOVERNOR

DEPT. OF ENVIRONMENTAL CONSERVATION

DIVISION OF WATER

Wastewater Discharge Authorization Program

555 Cordova Street
Anchorage, AK 99501-2617

Phone: (907) 269-6283

Fax: (907) 334-2415

TTY: (907) 269-7511

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

March 20, 2009

Certified Mail 7007-0710-0004-3850-

Mr. Dave Palmer, Airport Manager
Juneau International Airport
1873 Shell Simmons Drive, Suite 200
Juneau, Alaska 99801-7005

Subject: Gastineau Channel Juneau Airport
Reference No. POA-1981-320-M22
State ID No. AK 0705-03J

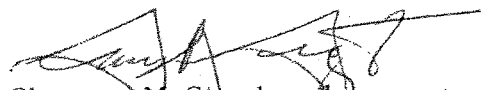
Dear Mr. Palmer:

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 for projects related the airport Runway Safety Area expansion and associated projects.

Department of Environmental Conservation regulations provide that any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Director, Division of Water, 555 Cordova St., Anchorage, AK 99501, within 15 days of the permit decision. Adjudicatory hearing requests 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 Corps of Engineers and the Division of Coastal and Ocean Management of our actions and enclosing a copy of the certification for their use.

Sincerely,



Sharmon M. Stambaugh
Environmental Program Manager

Enclosure
cc: (with encl.)
Randal Vigil, ACOE-Juneau
Jackie Timothy, ADF&G/Habitat
Tom Carson, Carson Dorn, Inc

Erin Allee, DNR, DCOM
William Ashton, ADEC
Greg Drzewiecki, ADEC

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CERTIFICATE OF REASONABLE ASSURANCE

A Certificate of Reasonable Assurance, in accordance with Section 401 of the Federal Clean Water Act and the Alaska Water Quality Standards, is issued to the Juneau International Airport, 1873 Shell Simmons Drive, Suite 200, Juneau, Alaska 99801-7005 for the following proposed work that will consist of nine projects in and around the Juneau International Airport. The applicant proposes to discharge approximately 770,000 cubic yards of fill material into approximately 65.6 acres of wetlands and waters of the United States.

The nine projects consist of the following:

1. Construction of a Snow Removal Equipment Facility approximately 600 feet by 500 feet, filling approximately 2.5 acres of wetlands. The stated purpose is to increase snow removal equipment storage and maintenance capacity and reduce mobilization time for snow removal operations.
2. Construction of the Northeast Development Project, which expands the existing apron in the northeast quadrant of the airport by approximately 1,200 feet by 1,200 feet filling approximately 19.9 acres of wetlands. The stated purpose is to provide aviation facilities to satisfy existing demand for commercial and general aviation aircraft.
3. Relocation of the Automated Surface Observation System to a site east of the TEMSCO facility requiring a 450 foot by 12 foot access road and an 80 foot by 40 foot pad. Approximately 0.40 acre of wetlands would be filled. The stated purpose is to allow development in the northeast quadrant of the airport.
4. Removal of a 25 foot wide by 5 foot deep "dam" composed of rocks, fine gravels, and silt at the outfall of the Jordan Creek culvert under the runway. Approximately 0.01 acre of Jordan Creek would be affected. The stated purpose is to eliminate a small pond near the runway where fish pool and birds congregate, creating a wildlife hazard to aircraft.
5. Removal of material from the bottom and sides of the Float Plane Pond. Approximate area of material removal would be 5,300 feet by 1,000 feet affecting approximately 82.8 acres of wetlands. The amount has been recently computed to be 960,000 cubic yards of material. The stated purpose is to eliminate the food source for birds at the bottom and sides of the Float Plane Pond and to provide fill material for other airport projects.
6. Construction of the Northwest Development Project, which includes apron expansion in the northwest quadrant of the airport by approximately 1,100 feet by 300 feet. Approximately 5.0 acres of wetlands would be filled. The relocation of Duck Creek and the creation of approximately 3.6 acres of wetlands are also proposed in this component. The stated purpose is to provide sufficient parking and hanger facilities to satisfy existing demand for general aviation aircraft, and to reduce the wildlife hazard posed by birds congregating at the Duck Creek outlet.

7. Construction of a 430 foot by 28 foot access road connecting the general aviation ramp and the bulk fuel storage facility. Approximately 0.05 acres of wetlands would be filled. The stated purpose is to provide safe and efficient fuel transport between the bulk fuel farm and the general aviation ramp.
8. Relocation of the existing runway and expansion of the existing runway safety area. This component will require an additional 450 feet by 700 feet on the west end of the runway and 520 feet by 700 feet on the east end of the runway. Approximately 28.4 acres of wetlands and waterways would be impacted by the proposed fill. The stated purpose is to bring the airport into compliance with FAA standards.
9. Placement of fill material on approximately 490 feet by 1,000 feet of wetlands at the west end of the runway. Approximately 9.1 acres of wetlands would be impacted. The stated purpose is to eliminate wetlands and ponded areas near the runway that attract birds.

The proposed activity is located at Section 36, T. 40 S., R 65 E.; Sections 31 and 32, T. 40 S., R. 66 E.; and Section 1, T. 41 S., R. 66 E., Copper River Meridian, in Juneau, Alaska.

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

Water Quality Certification is required under Section 401 because the proposed activity will be authorized by a Corps of Engineers permit, reference number POA-1981-320-M22 and a discharge may result from the proposed activity.

Having reviewed the application and comments received in response to the public notice, the Alaska Department of Environmental Conservation 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. For any spill amount, there are Discharge Notification and Reporting Requirements (AS 46.03.755 and 18 AAC 75 Article 3). Most importantly, contact by phone the ADCE Area Response Team for Central Alaska during work hours for Southeast Area Response Team (907) 465-5340. After work hours call 1-800-478-9300 after

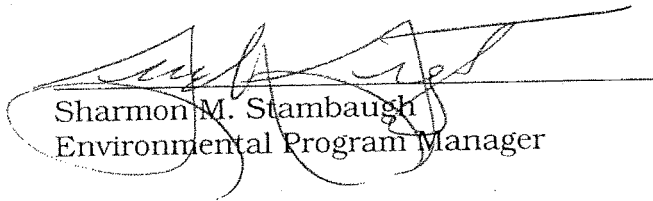
hours. Also contact by phone the National Response Center at 1-800-424-8802. Report all spills.

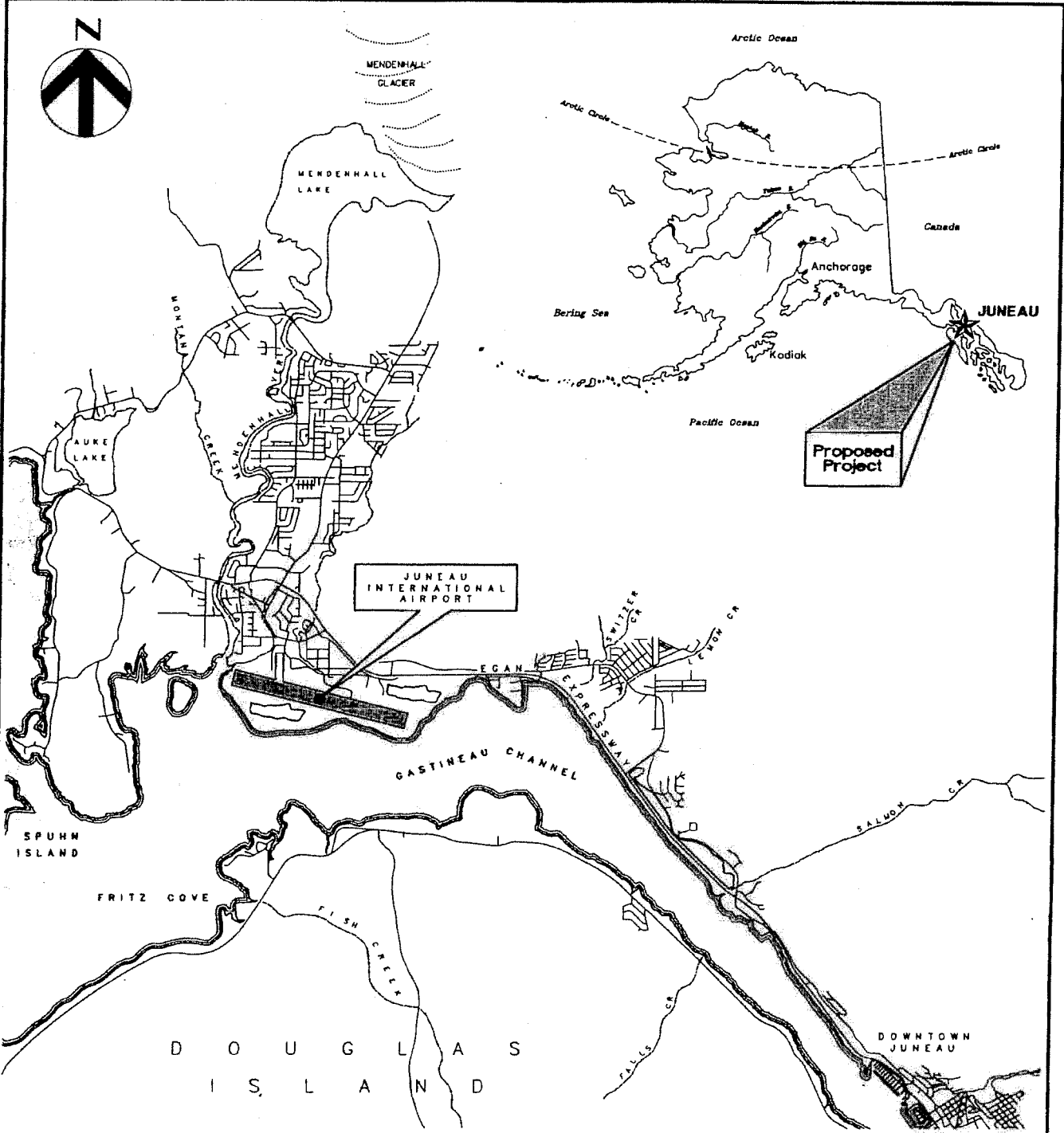
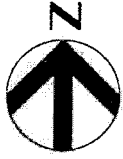
3. Fill materials must consist of clean sand, gravel, or rock fill and riprap that are free from fines and suspendible material to the extent practicable, and free from contamination by petroleum products or toxic substances.
4. This project is required to develop a Storm Water Pollution Prevention Plan (SWPPP) in conformity with the EPA's General Permit for Storm Water Discharges from Large and Small Construction Activities in Alaska (AKR100000). This SWPPP must also be submitted to ADEC (Greg Drzewiecki, 907-269-7692) prior to construction.
5. Design plans for the post-construction (permanent) collection and treatment of stormwater runoff and snowmelt runoff must be submitted to the ADEC (Greg Drzewiecki, 907-269-7692) and the applicant must receive ADEC's letter of non-objection prior to construction (18 Alaska Administrative Code 72.600).
6. Construction equipment shall not be operated below the ordinary high water mark or high tide line if equipment is leaking fuel, oil, hydraulic fluid, or any other hazardous material. Operation of tracked or wheeled equipment in the water shall be kept to a minimum. Equipment shall be inspected on a daily basis for leaks. If leaks are found the equipment shall not be used and pulled from service until the leak is repaired.
7. Disturbed ground and exposed soil not covered with fill, structures, or appurtenances must be stabilized and revegetated with endemic species, grasses, or other suitable vegetation in an appropriate and timely manner to minimize erosion and sedimentation, so that a durable vegetative cover is established and maintained.
8. Dredge spoils are to be transported and deposited in such a way that silt laden runoff water from the dredging activity shall not be allowed to discharge directly or indirectly into wetlands (other than those scheduled for filling), fresh or marine waters.
9. Construction activities must be confined to the minimum footprint necessary to complete construction.
10. All work areas, material access routes, and surrounding wetlands involved with the project shall be clearly delineated and marked in such a way that equipment operators do not operate outside of the marked areas.
11. If dewatering is to occur during the project, methods shall be implemented to filter or settle out suspended sediments from wastewater resulting from dewatering activities prior to its direct or indirect discharge into any natural body of water. Prior to dewatering, contact ADEC at 907-269-6285, to determine if an ADEC authorization to discharge is required.

12. All fills and disturbed areas resulting from project construction shall be stabilized to minimize erosion and subsequent sedimentation into streams and wetlands.
13. If during construction, placement of fill material, or backfilling, a turbidity plume is produced, a silt curtain shall be installed to enclose the activity causing the turbidity.

This certification expires five (5) years after the date the certification is signed. If your project is not completed by then and work under 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 3/20/2009


Sharmon M. Stambaugh
Environmental Program Manager



Z:\200868 Carlson Dorn, Inc \12893 JIA Permitting\CAD\COE Permits\JIA_Project Location_Fig 1.dwg

SOURCE DATA PROVIDED BY CJB,
AND SWCA INC.

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 66E, Sec. 31, 32
T. 40S, R. 65E, Sec. 36
T. 41S, R. 66E, Sec. 1
COPPER RIVER MERIDIAN

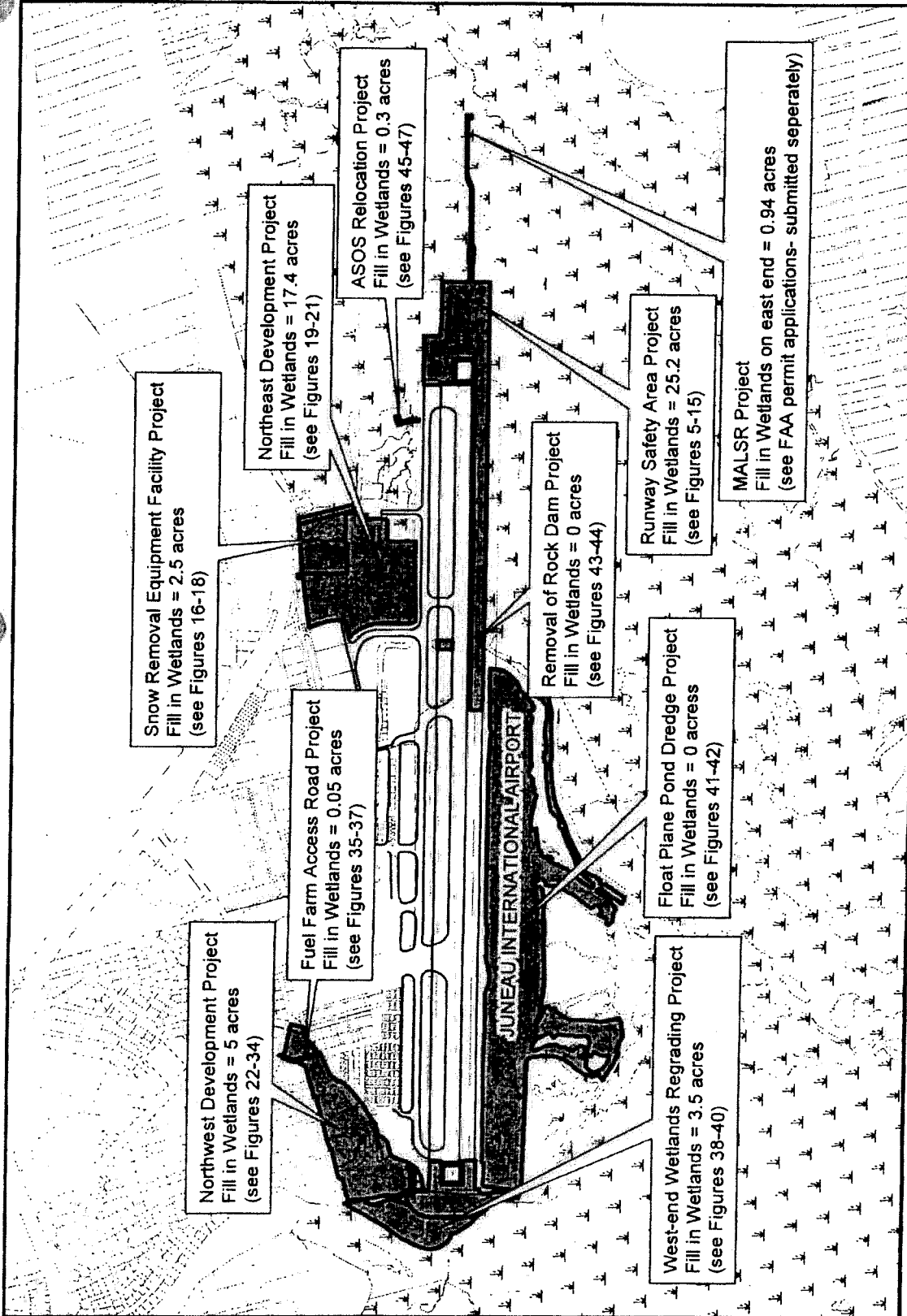
PROJECT LOCATION

NOT TO SCALE

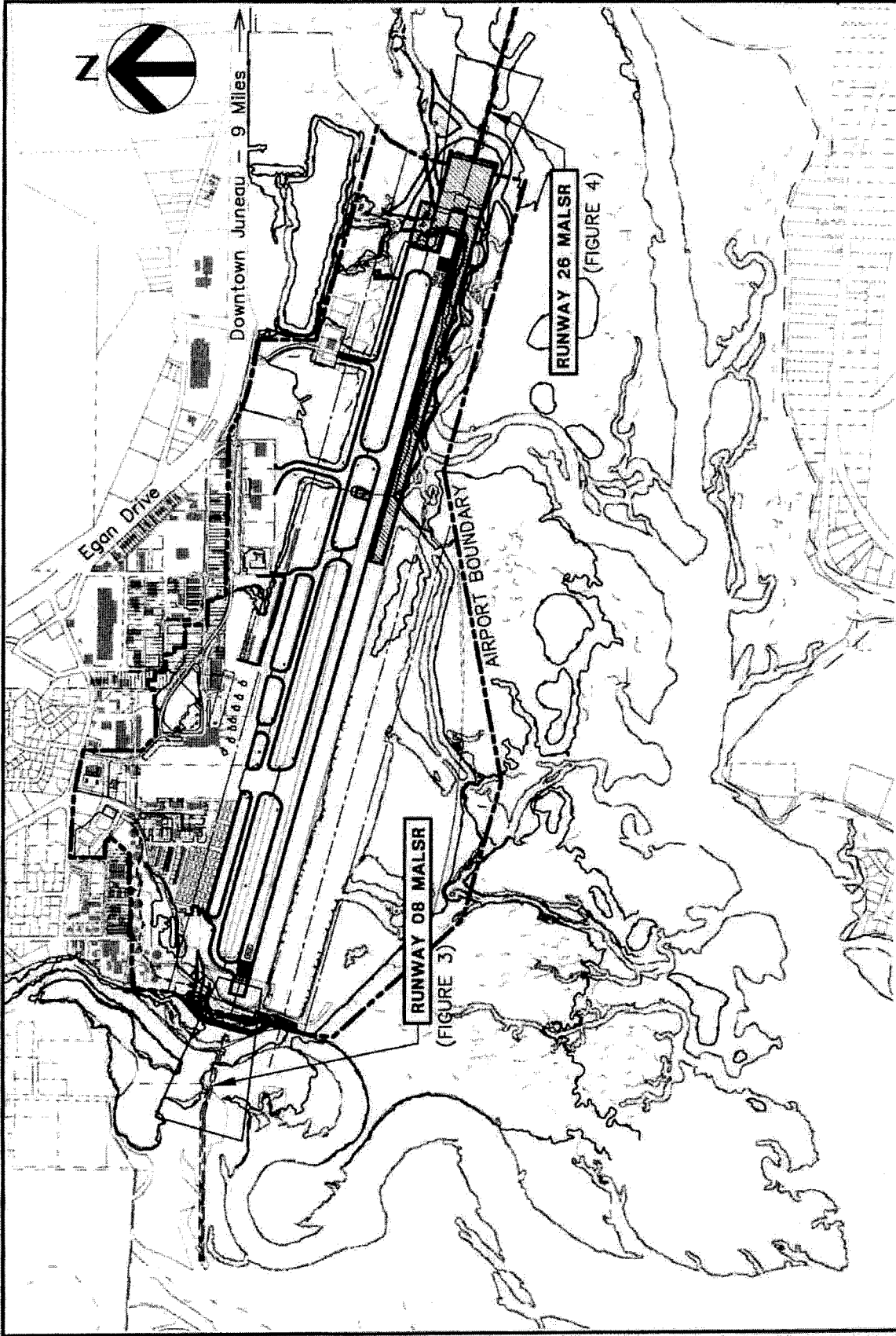
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

JUNEAU INT. AIRPORT PROJECTS

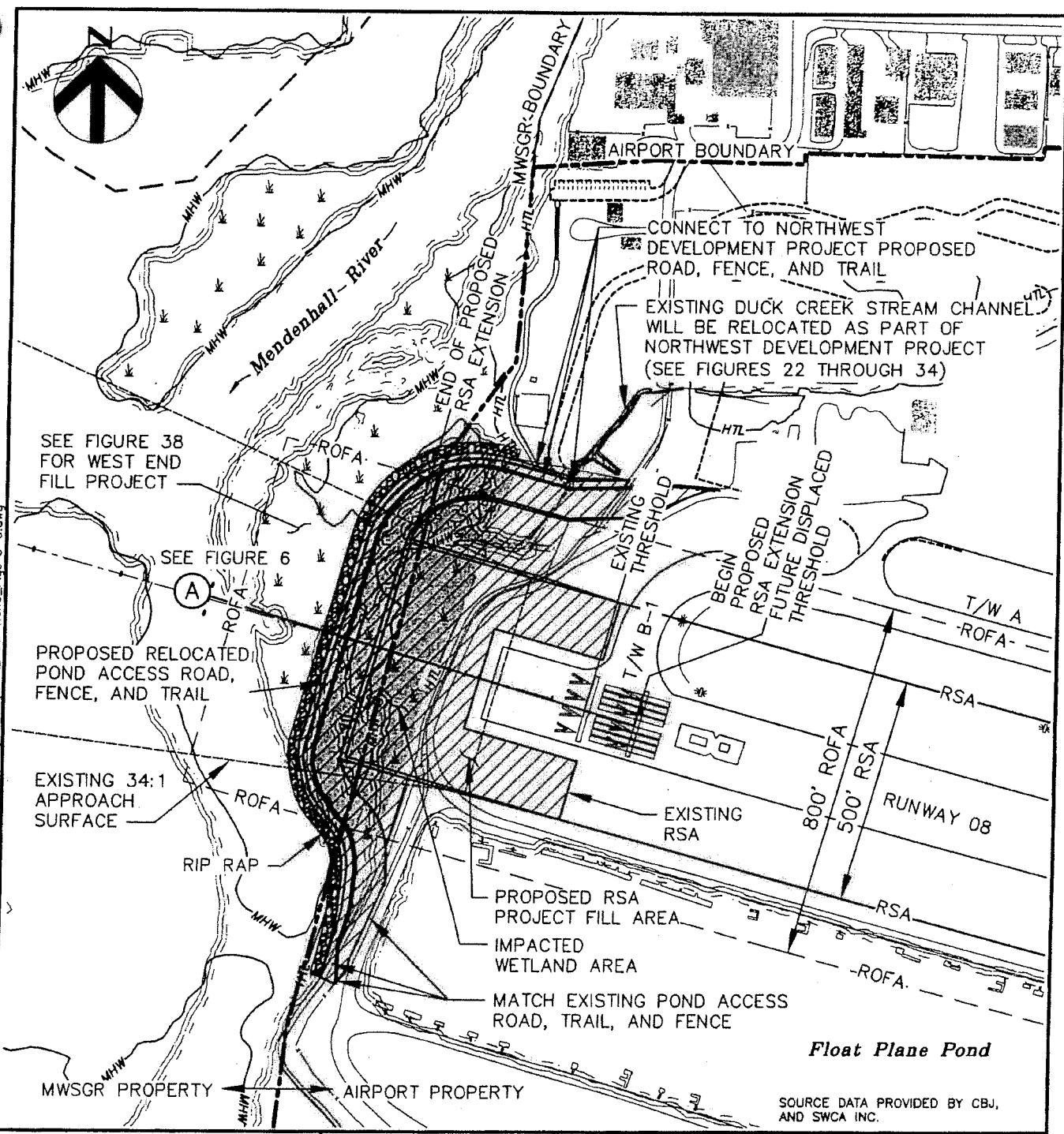
**POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 1 of 51**



<p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 2 of 51</p>	<p>OVERVIEW 1 inch equals 1,500 feet APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>DATUM: MEAN LOW LOW WATER (MLLW) LOCATION: T. 40S, R. 66E, Sec. 31, 32 T. 40S, R. 65E, Sec. 36 T. 41S, R. 66E, Sec. 1 COPPER RIVER MERIDIAN</p>
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<p>PURPOSE: IMPROVE AIRCRAFT APPROACH WITH RUNWAY & IMPROVE TRANSITION TO VISUAL REFERENCE FOR LANDING AT JNU</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40 S. R. 66 E. Sec. 32 T. 41 S. R. 66 E. Sec. 1 COPPER RIVER MERIDIAN</p>	<p>KEY MAP</p> <p>SCALE: 1" = 300'</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>MEDIUM INTENSITY APPROACH LIGHTING SYSTEM w/RUNWAY INDICATOR LIGHTS (MALS)</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 3 of 51</p>
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SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.

Z:\200865_Carson_Dom_Inc\12893_JIA_Permittting\CAD\CCE Permits\JIA_Runway Safety Area\JIA_RSA_Wend_Figs 5-6.dwg

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT

DATUM: MEAN LOW LOW WATER (MLLW)

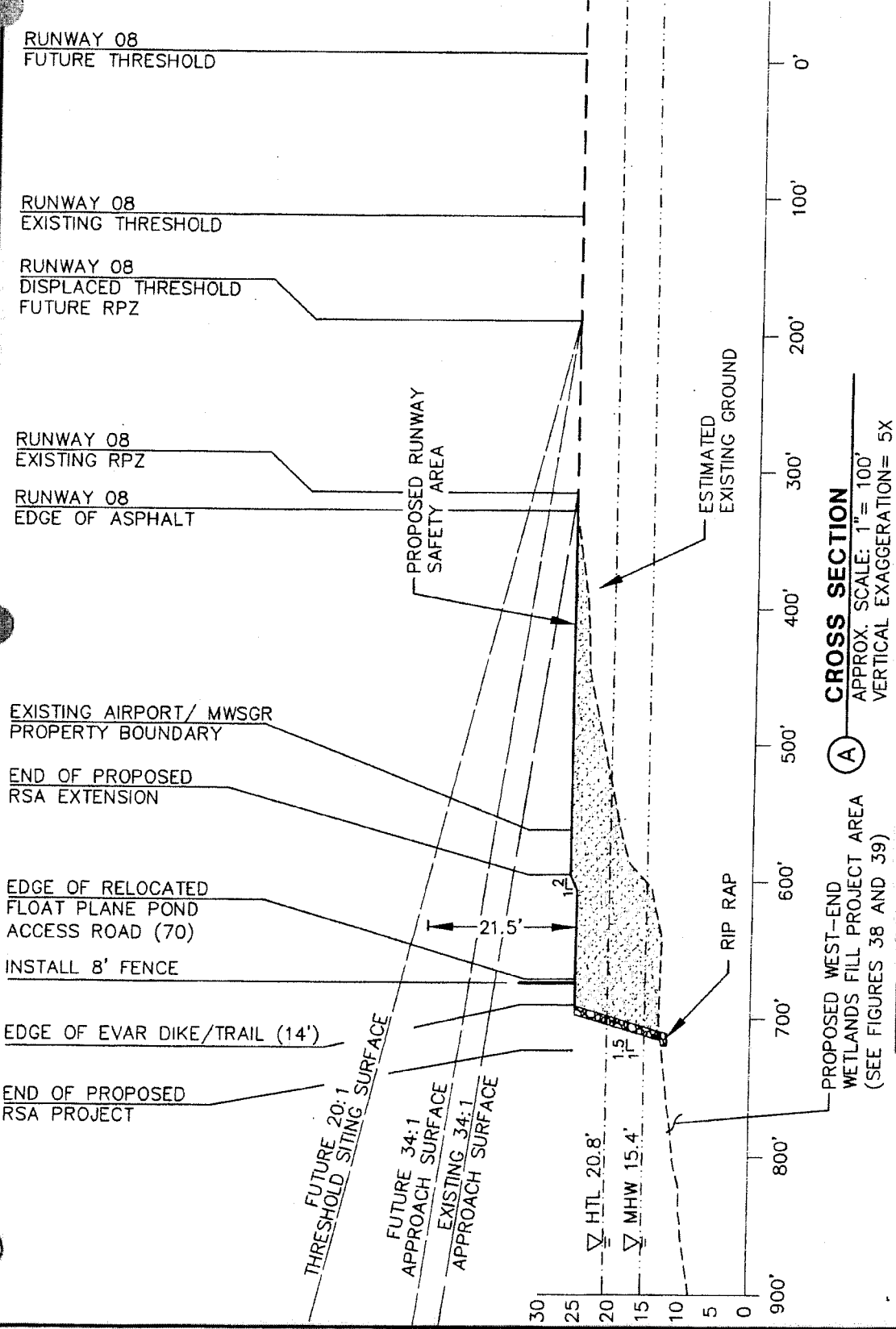
LOCATION: T. 40S, R. 65E, Sec. 36
T. 40S, R. 66E, Sec. 31, 32
T. 41S, R. 66E, Sec. 1
COPPER RIVER MERIDIAN

WEST END RUNWAY SAFETY AREA PLAN VIEW

SCALE: 1" = 300'
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

RUNWAY SAFETY AREA PROJECT

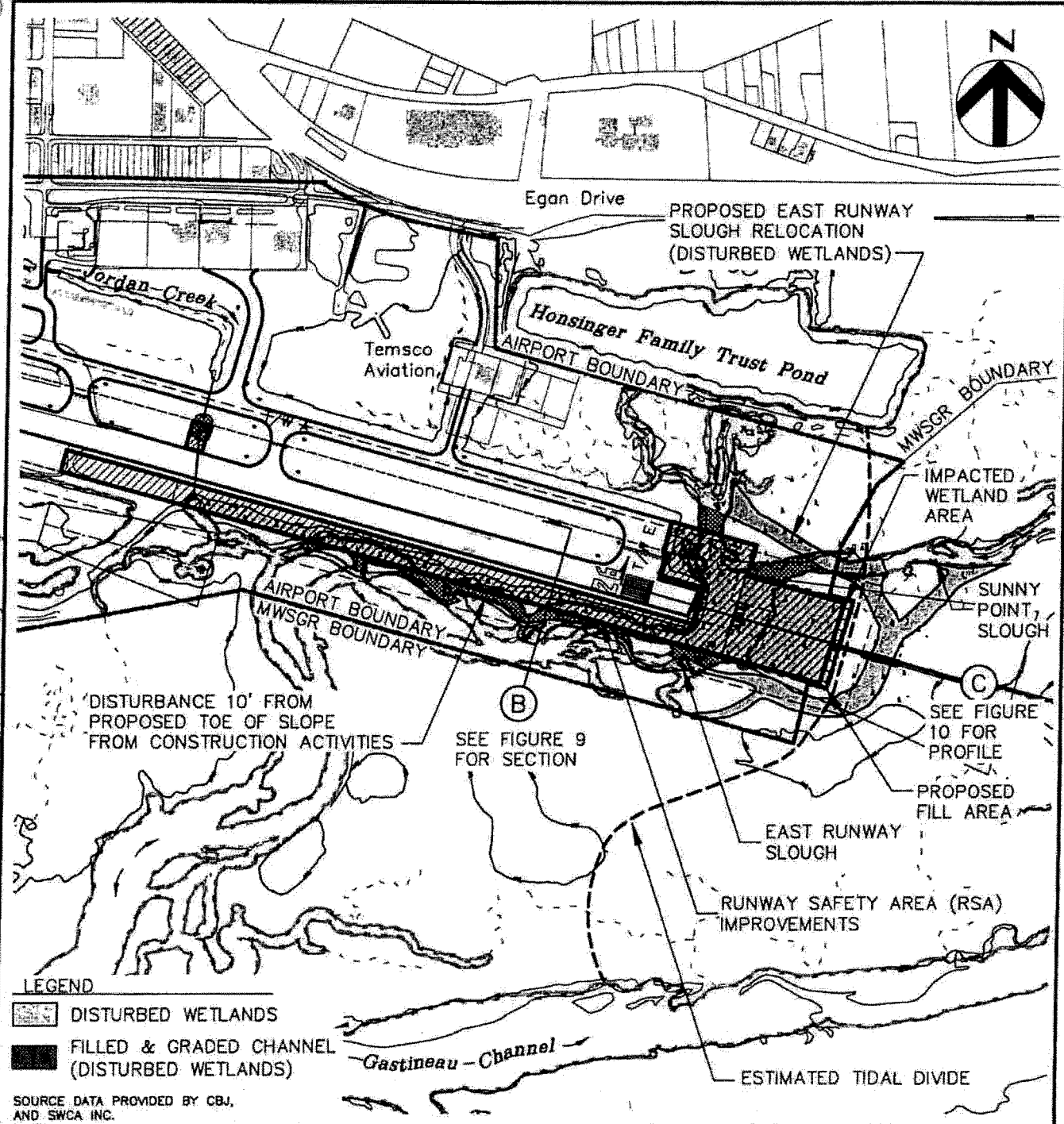
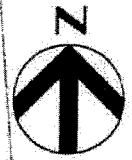
**POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 4 of 51**





CROSS SECTION
 APPROX. SCALE: 1" = 100'
 VERTICAL EXAGGERATION = 5X

PROPOSED WEST-END WETLANDS FILL PROJECT AREA
 (SEE FIGURES 38 AND 39)

<p>WEST END RUNWAY SAFETY AREA CROSS SECTION</p>	<p>NOT TO SCALE APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>RUNWAY SAFETY AREA PROJECT POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 5 of 51</p>
<p>PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT</p>	<p>DATUM: MEAN LOW LOW WATER (MLLW)</p>	<p>LOCATION: T. 40S, R. 65E, Sec. 36 T. 40S, R. 66E, Sec. 31, 32 T. 41S, R. 66E, Sec. 1 COPPER RIVER MERIDIAN</p>
<p>SOURCE DATA PROVIDED BY CBU, AND SWCA INC.</p> <p>ELEVATIONS ARE PROVISIONAL ONLY, BASED ON CBU'S 2001 LEAD DATA THAT HAS NOT BEEN FULLY CONFIRMED BY QUALITY CONTROL PROCEDURES. THIS INFORMATION IS PROVIDED FOR PLANNING PURPOSES ONLY, AND MAY BE USED IN THE FUTURE. FAA, CBU, AND HDR ASSUME NO LIABILITY FOR THE USE OF THIS DATA.</p>		



LEGEND

-  DISTURBED WETLANDS
-  FILLED & GRADED CHANNEL (DISTURBED WETLANDS)

SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 65E, Sec. 36
T. 40S, R. 66E, Sec. 31, 32
T. 41S, R. 66E, Sec. 1
COPPER RIVER MERIDIAN

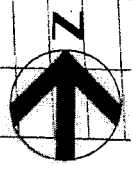
EAST END RUNWAY SAFETY AREA PLAN VIEW

SCALE: 1" = 800'
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

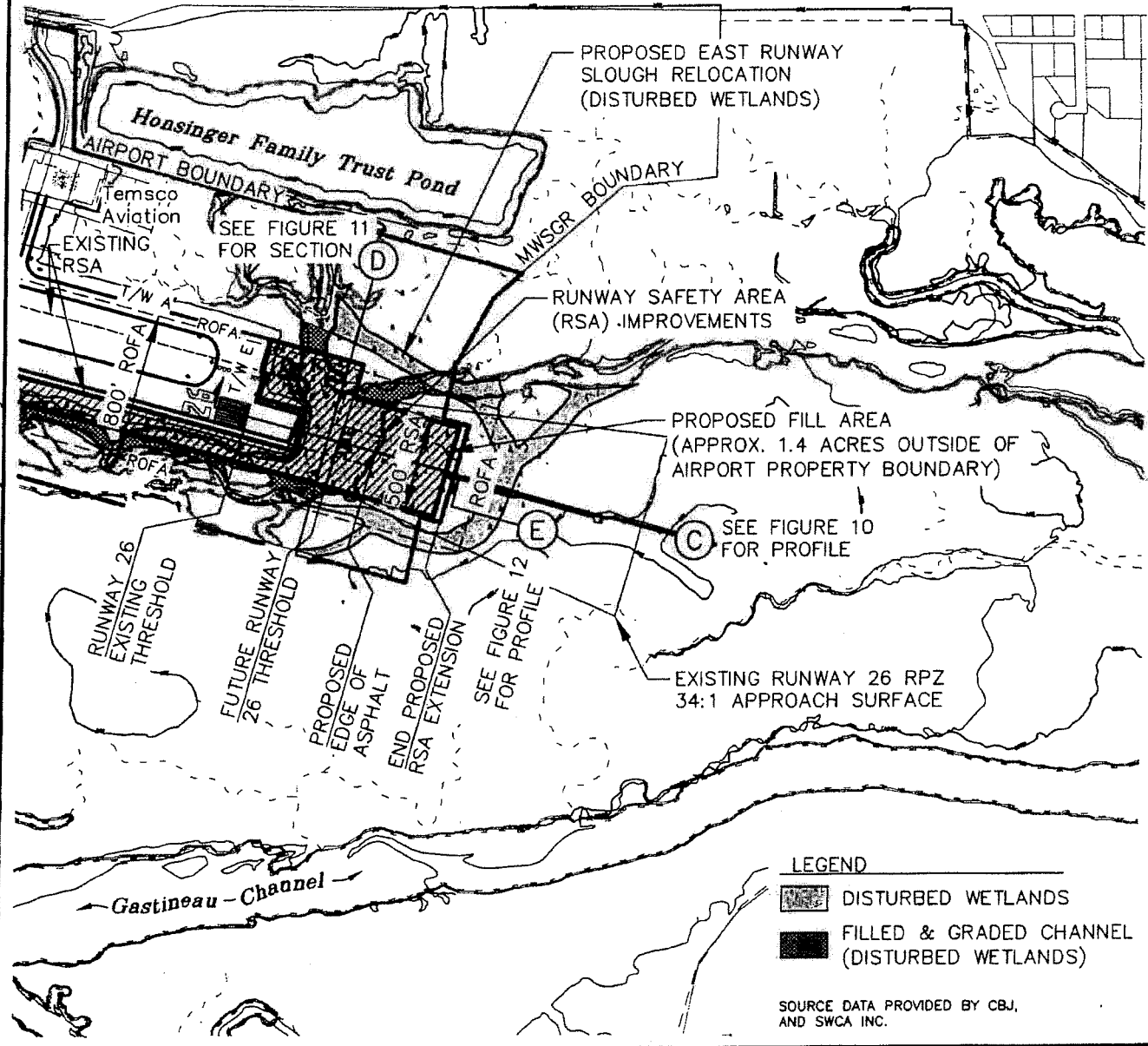
RUNWAY SAFETY AREA PROJECT

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 6 of 51



Z:\200868 Carson Dorr, Inc\12893 JIA Permitting\CAD\COE Permits\JIA_Runway Safety Area\JIA_RSA_305 7-12.dwg



Egan Drive



LEGEND

-  DISTURBED WETLANDS
-  FILLED & GRADED CHANNEL (DISTURBED WETLANDS)

SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.

Z:\200868 Corson Dorn, Inc\12893 JIA Permitting\CAD COE Permits\JIA_Runway Safety Area\JIA_RSA_Figs 7-12.dwg

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT

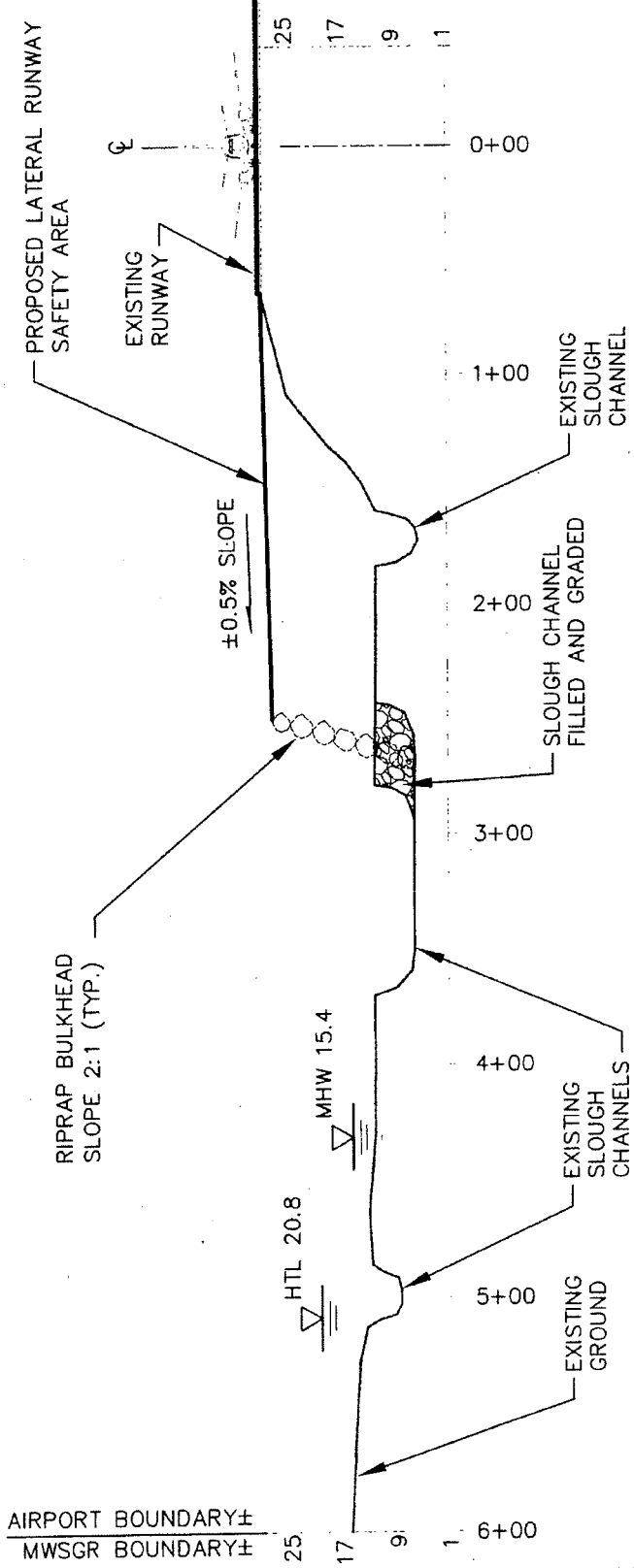
DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 65E, Sec. 36
 T. 40S, R. 66E, Sec. 31, 32
 T. 41S, R. 66E, Sec. 1
 COPPER RIVER MERIDIAN

CONNECTING CHANNEL TO EAST RUNWAY SLOUGH
PLAN VIEW
 SCALE: 1" = 800'
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

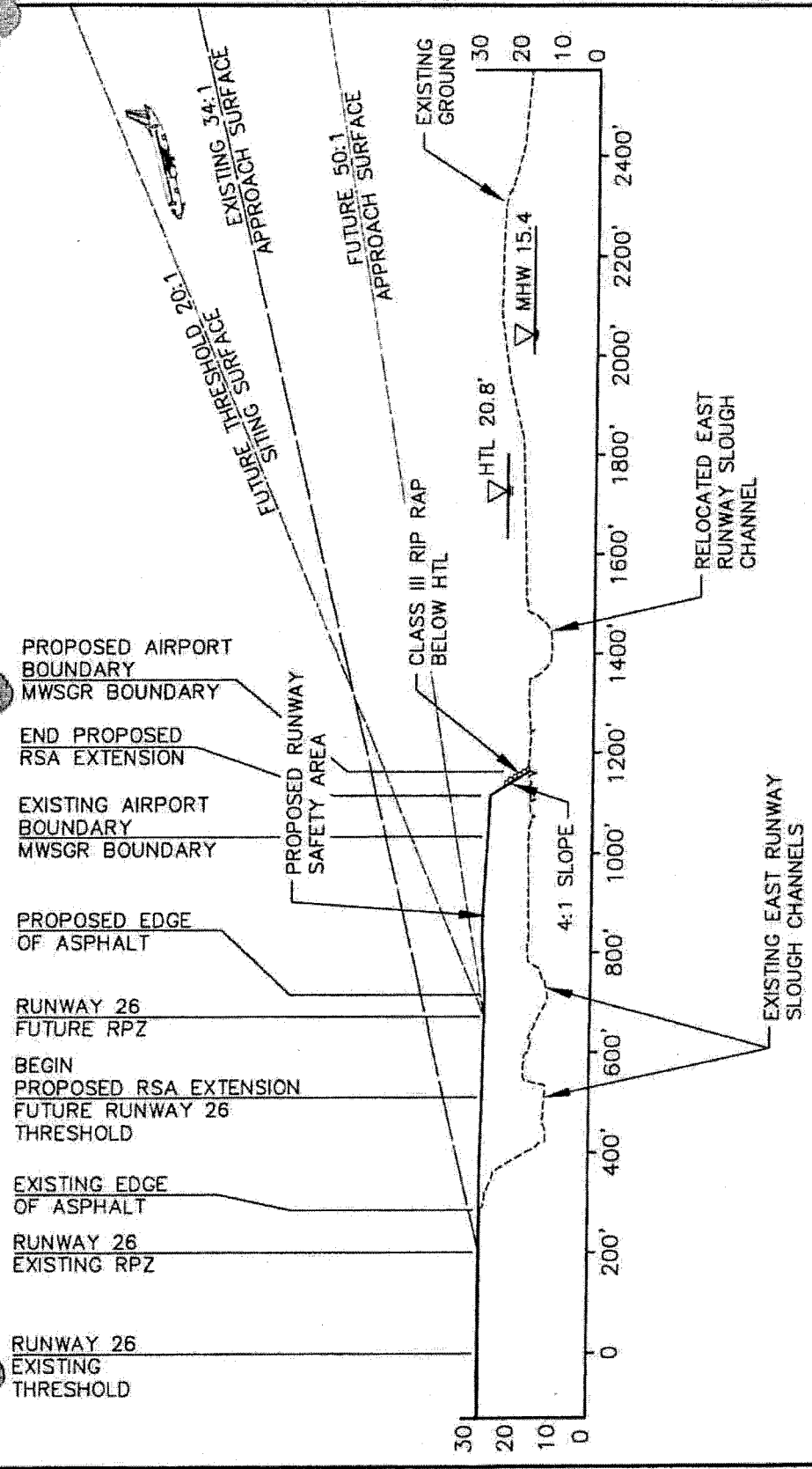
RUNWAY SAFETY AREA PROJECT

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 7 of 51



(B) EAST END RUNWAY AND EAST RUNWAY SLOUGH SECTION VIEW
NOT TO SCALE

<p>SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.</p>	<p>PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 66E, Sec. 36 T. 40S, R. 66E, Sec. 31, 32 T. 41S, R. 66E, Sec. 1 COPPER RIVER MERIDIAN</p>	<p>EAST END RUNWAY AND EAST RUNWAY SLOUGH SECTION VIEW NOT TO SCALE</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>RUNWAY SAFETY AREA PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 8 of 51</p>
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**EAST RUNWAY SAFETY AREA
PROFILE VIEW**

APPROX. HORIZ. SCALE: 1"=300'
VERTICAL EXAGGERATION= 3X



SOURCE DATA PROVIDED BY CBI,
AND SWICK INC.

ELEVATIONS ARE PROVISIONAL ONLY. BASED ON
CBI'S 2001 LIDAR DATA THAT HAS NOT YET BEEN
FULLY CORRECTED BY QUALITY CONTROL
PROCEDURES. THIS INFORMATION IS PROVIDED
FOR PLANNING PURPOSES ONLY, AND MAY BE
REVISED IN THE FUTURE. FAA, CBI, AND HOR
ASSUME NO LIABILITY FOR THE USE OF THIS
DATA.

PURPOSE: PROVIDE INCREASED SAFETY AND
OPERATIONAL EFFICIENCY AT
JUNEAU INTERNATIONAL AIRPORT

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 65E, Sec. 36
T. 40S, R. 66E, Sec. 31, 32
T. 41S, R. 66E, Sec. 1
COPPER RIVER MERIDIAN

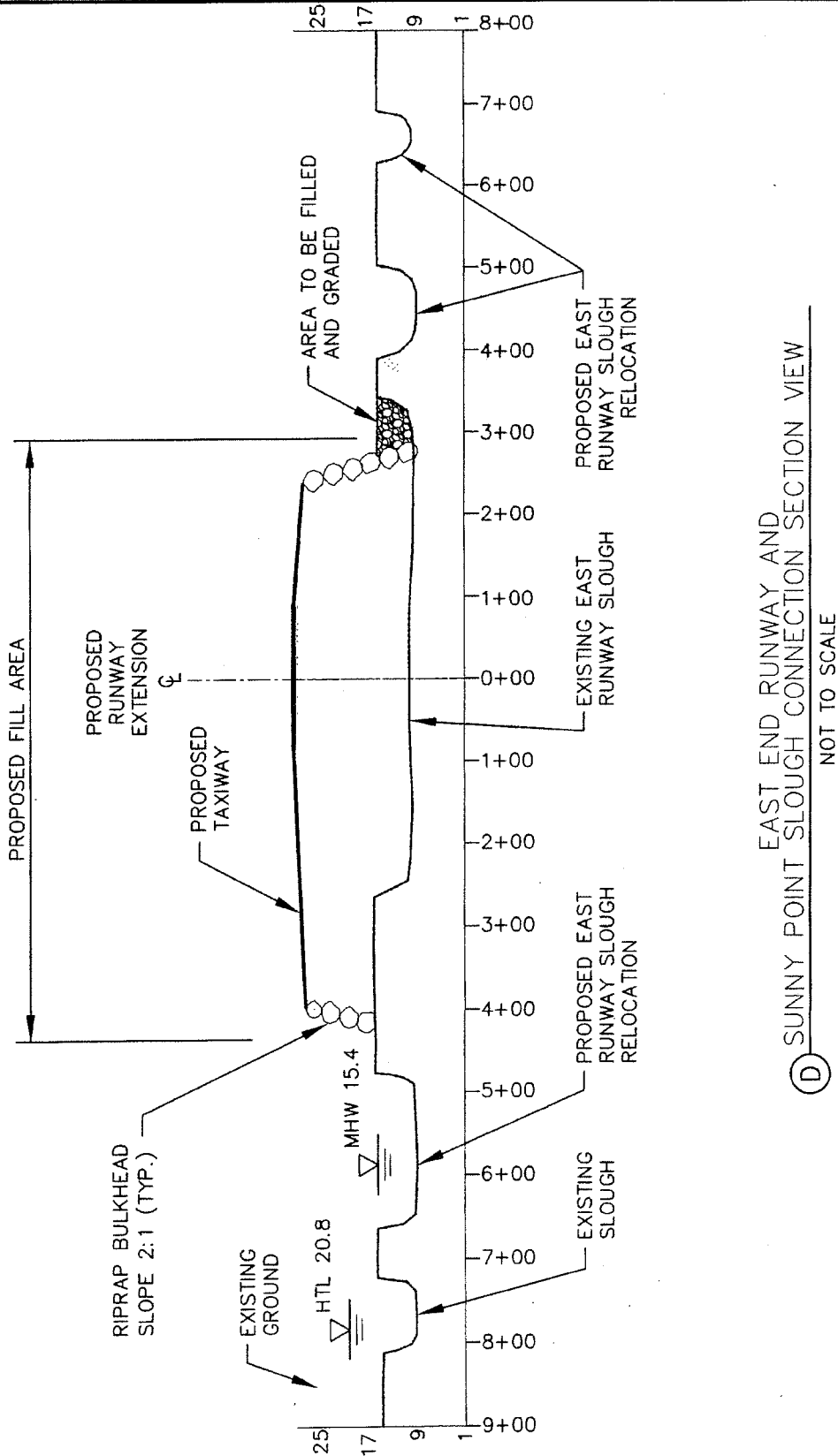
**EAST END RUNWAY SAFETY AREA
PROFILE VIEW**

NOT TO SCALE
APPLICATION BY:

JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

RUNWAY SAFETY AREA PROJECT

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 9 of 51



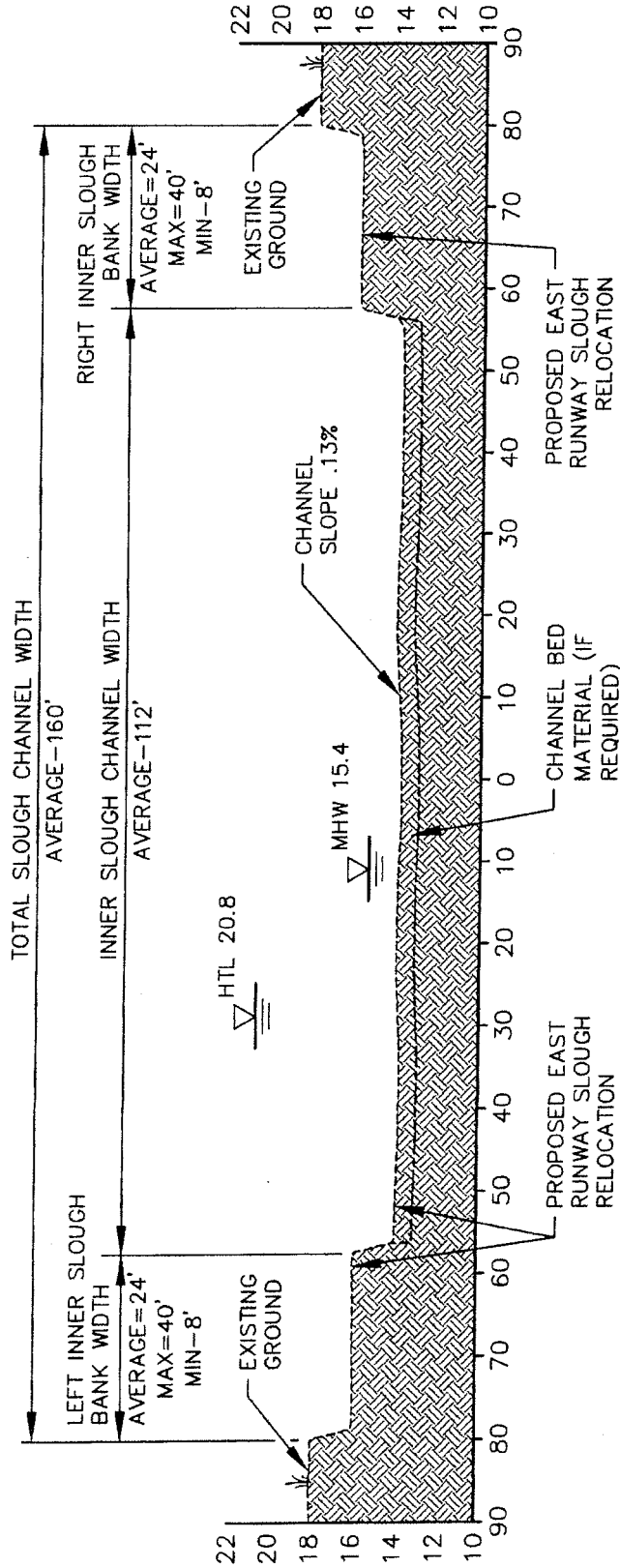
(D) EAST END RUNWAY AND SUNNY POINT SLOUGH CONNECTION SECTION VIEW
NOT TO SCALE

SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT
 DATUM: MEAN LOW LOW WATER (MLLW)
 LOCATION: T. 40S, R. 65E, Sec. 36
 T. 40S, R. 66E, Sec. 31, 32
 T. 41S, R. 66E, Sec. 1
 COPPER RIVER MERIDIAN

EAST END RUNWAY AND SUNNY POINT SLOUGH CONNECTION SECTION VIEW
 NOT TO SCALE
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

RUNWAY SAFETY AREA PROJECT
POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 10 of 51



TYPICAL EAST RUNWAY SLOUGH SECTION

NTS



SOURCE DATA PROVIDED BY CBI, AND SWCA INC.

ELEVATIONS ARE PROVISIONAL ONLY. BASED ON JULY 2001 DTM DATA THAT HAS NOT BEEN CHECKED BY THE STATE ENGINEERING DIVISION. THIS INFORMATION IS PROVIDED FOR PLANNING PURPOSES ONLY, AND MAY BE REVISED IN THE FUTURE. FAA, CBI, AND HDR ASSUME NO LIABILITY FOR THE USE OF THIS DATA.

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT

DATUM: MEAN LOW LOW WATER (MLLW)

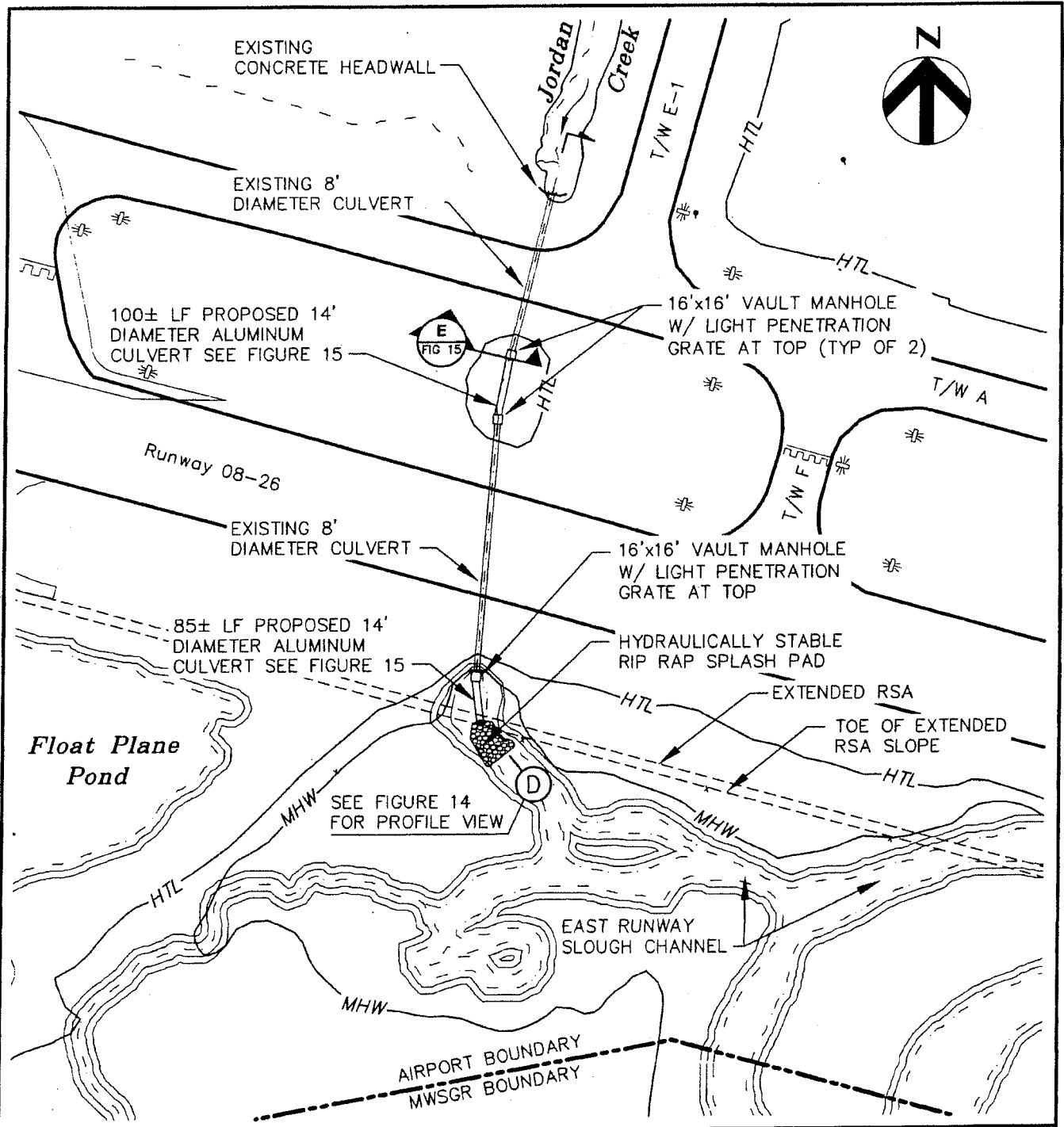
LOCATION: T. 40S, R. 65E, Sec. 36
T. 40S, R. 66E, Sec. 31, 32
T. 41S, R. 66E, Sec. 1
COPPER RIVER MERIDIAN

EAST END RUNWAY SAFETY AREA PROFILE VIEW

NOT TO SCALE
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

RUNWAY SAFETY AREA PROJECT

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 11 of 51

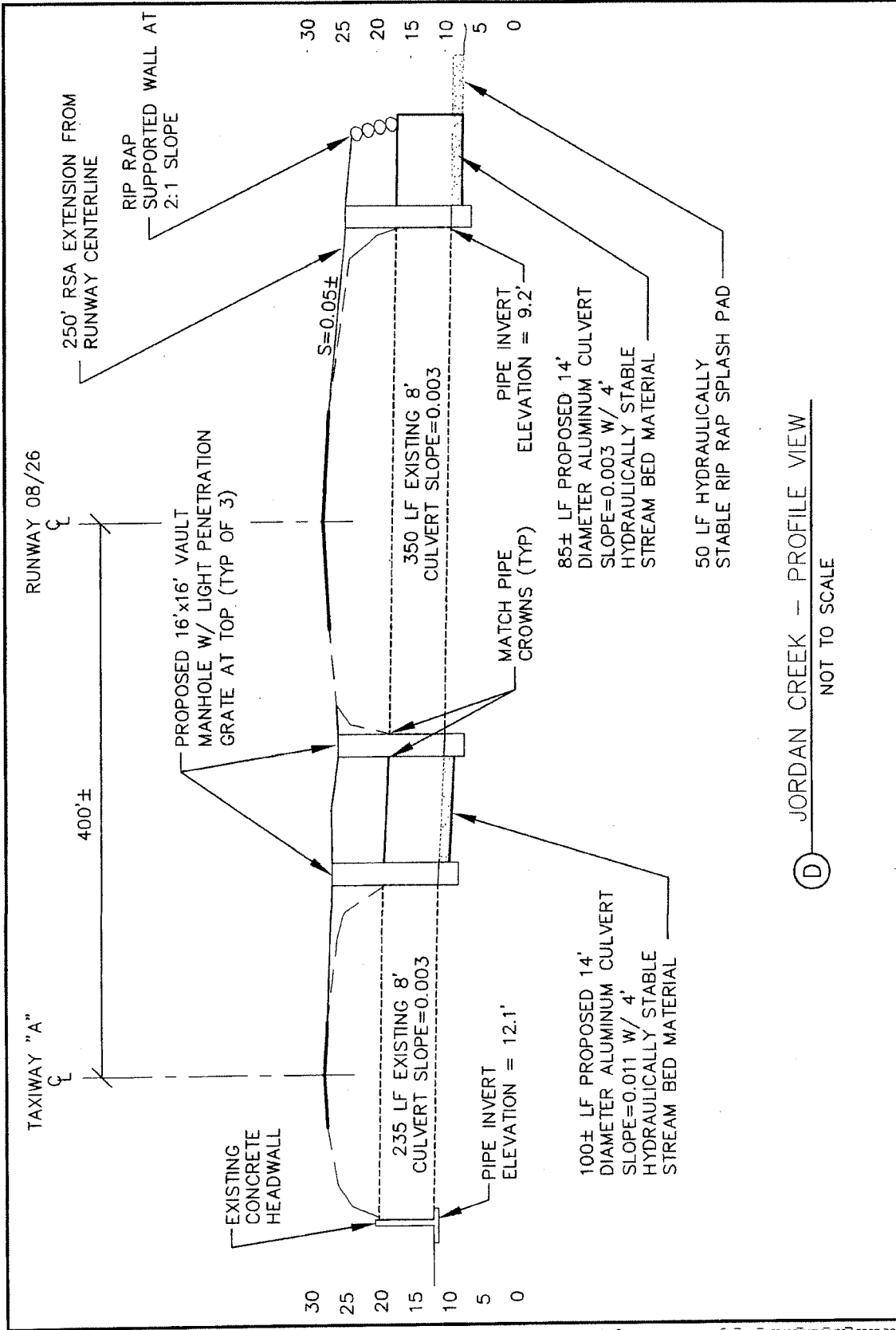


Anc- Srvcs\Project\200668 Corson Dorn, Inc\12893 JIA Permitting\CAD\COE Permits\JIA_Runway Safety Area\JIA_RSA_Jordan

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT
DATUM: MEAN LOW LOW WATER (MLLW)
LOCATION: T. 40S, R. 65E, Sec. 36
 T. 40S, R. 66E, Sec. 31, 32
 T. 41S, R. 66E, Sec. 1
 COPPER RIVER MERIDIAN

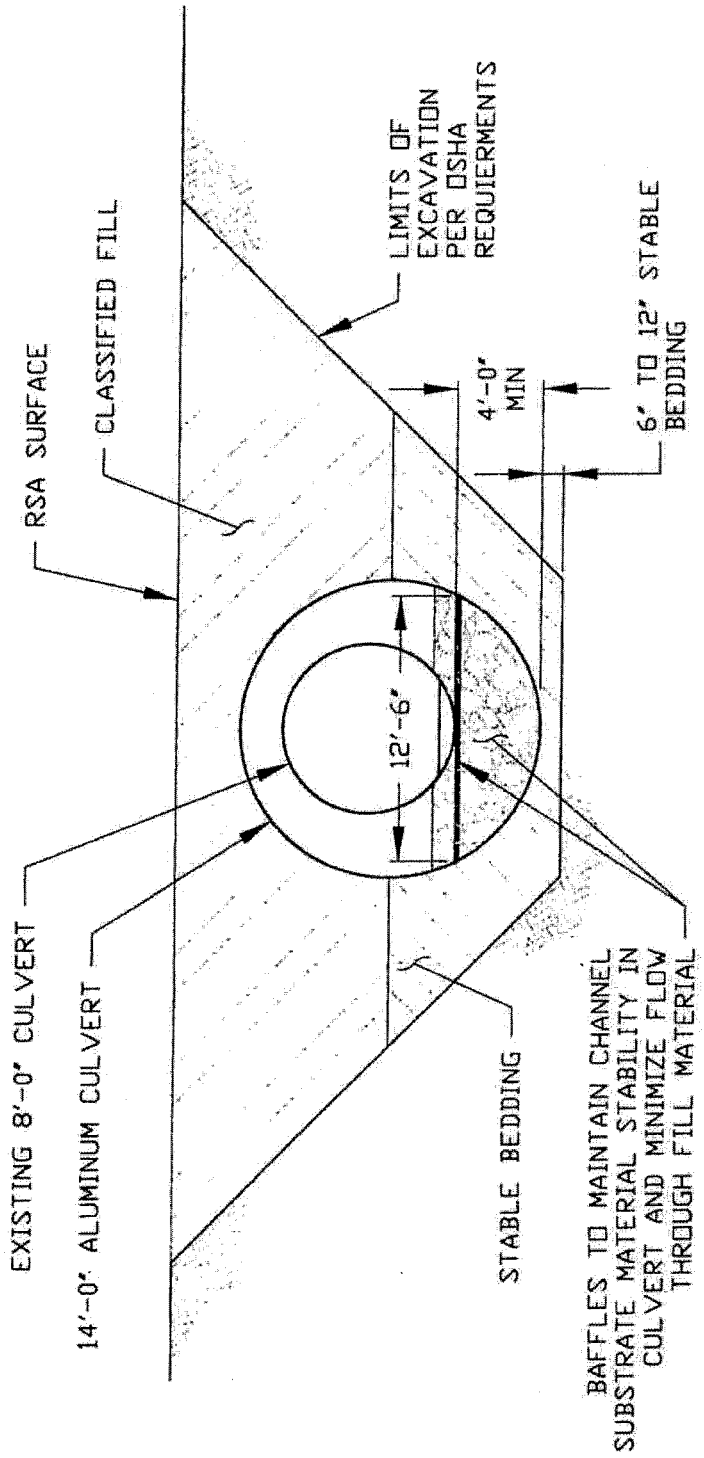
JORDAN CREEK RUNWAY CROSSING AND MODIFICATIONS PLAN VIEW
SCALE: 1" = 200'
APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

RUNWAY SAFETY AREA PROJECT
POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 12 of 51



(D) JORDAN CREEK - PROFILE VIEW
NOT TO SCALE

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT DATUM: MEAN LOW LOW WATER (MLLW)	JORDAN CREEK RUNWAY CROSSING AND MODIFICATIONS PROFILE VIEW	RUNWAY SAFETY AREA PROJECT
LOCATION: T. 40S. R. 65E, Sec. 36 T. 40S. R. 66E, Sec. 31, 32 T. 41S. R. 66E, Sec. 1 COPPER RIVER MERIDIAN	SCALE: AS NOTED APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801	POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 13 of 51



E
FIG 15

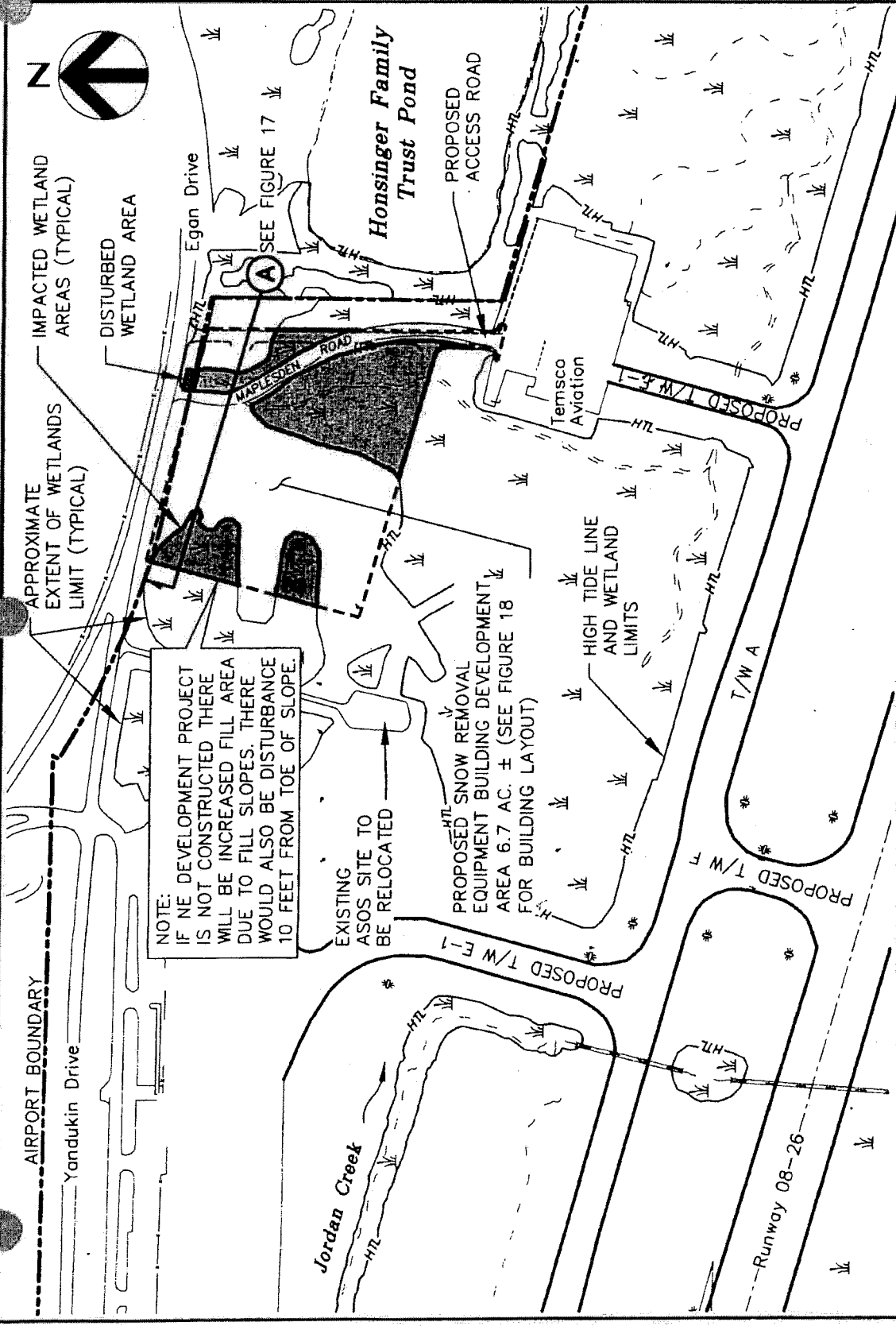
14' DIAMETER ALUMINUM CULVERT CROSS SECTION

NOT TO SCALE

PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT
DATUM: MEAN LOW LOW WATER (MILLW)
LOCATION: T. 40S, R. 65E, Sec. 36
 T. 40S, R. 66E, Sec. 31, 32
 T. 41S, R. 66E, Sec. 1
 COPPER RIVER MERIDIAN

JORDAN CREEK RUNWAY CROSSING AND MODIFICATIONS ARCH CULVERT CROSS SECTION
 SCALE: AS NOTED
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

RUNWAY SAFETY AREA PROJECT
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 14 of 51



NOTE:
 IF NE DEVELOPMENT PROJECT IS NOT CONSTRUCTED THERE WILL BE INCREASED FILL AREA DUE TO FILL SLOPES. THERE WOULD ALSO BE DISTURBANCE 10 FEET FROM TOE OF SLOPE.

EXISTING ASOS SITE TO BE RELOCATED

PROPOSED SNOW REMOVAL EQUIPMENT BUILDING DEVELOPMENT AREA 6.7 AC. ± (SEE FIGURE 18 FOR BUILDING LAYOUT)

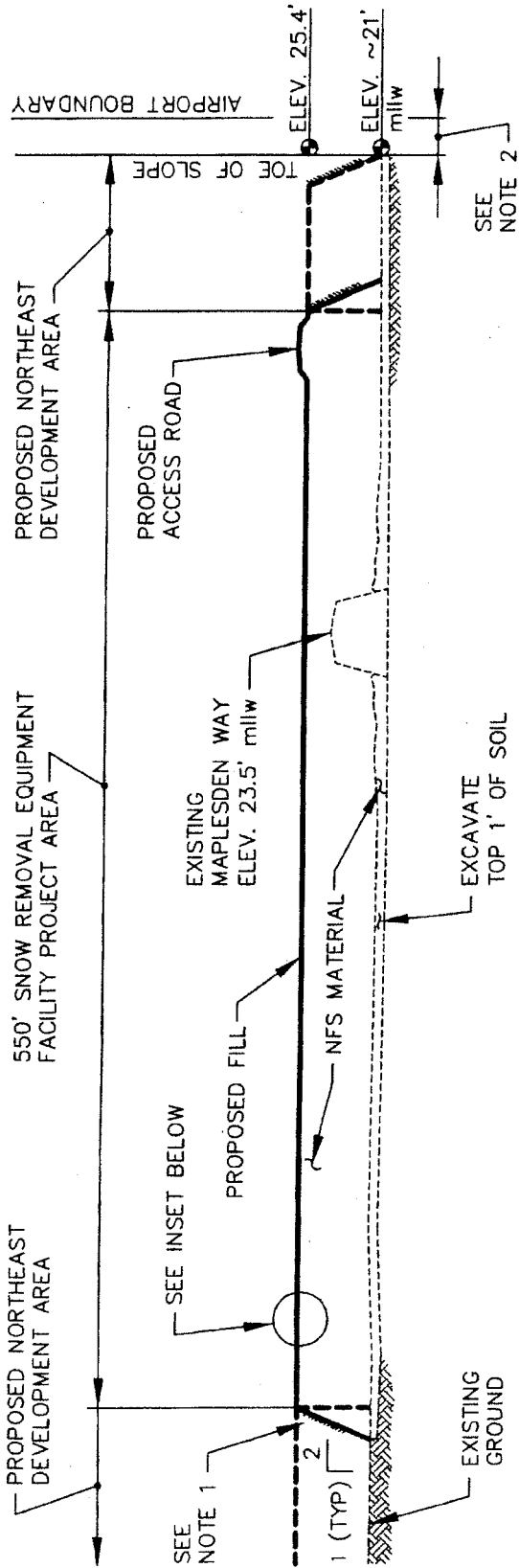
HIGH TIDE LINE AND WETLAND LIMITS

SOURCE DATA PROVIDED BY CBI, AND SWCA INC.

PURPOSE: INCREASE SNOW REMOVAL CAPACITY AND REDUCE MOBILIZATION TIME FOR SNOW REMOVAL OPERATIONS
DATUM: MEAN LOW LOW WATER (MLLW)

PLAN VIEW
 SCALE: 1" = 300'
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

SNOW REMOVAL EQUIPMENT FACILITY PROJECT
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 15 of 51



SREF DEVELOPMENT FILL **A**

NOTES

1. IF NORTHWEST DEVELOPMENT PROJECT IS NOT CONSTRUCTED THERE WILL BE INCREASED FILL AREA DUE TO FILL SLOPES. THE FILL SLOPES WILL HAVE A 2:1 SLOPE AND SHALL BE TREATED WITH 4" TOPSOIL AND SEEDED WITH UNPALATABLE GRASS SPECIES.
2. THERE WILL ALSO BE DISTURBANCE 10 FEET FROM TOE OF SLOPE.

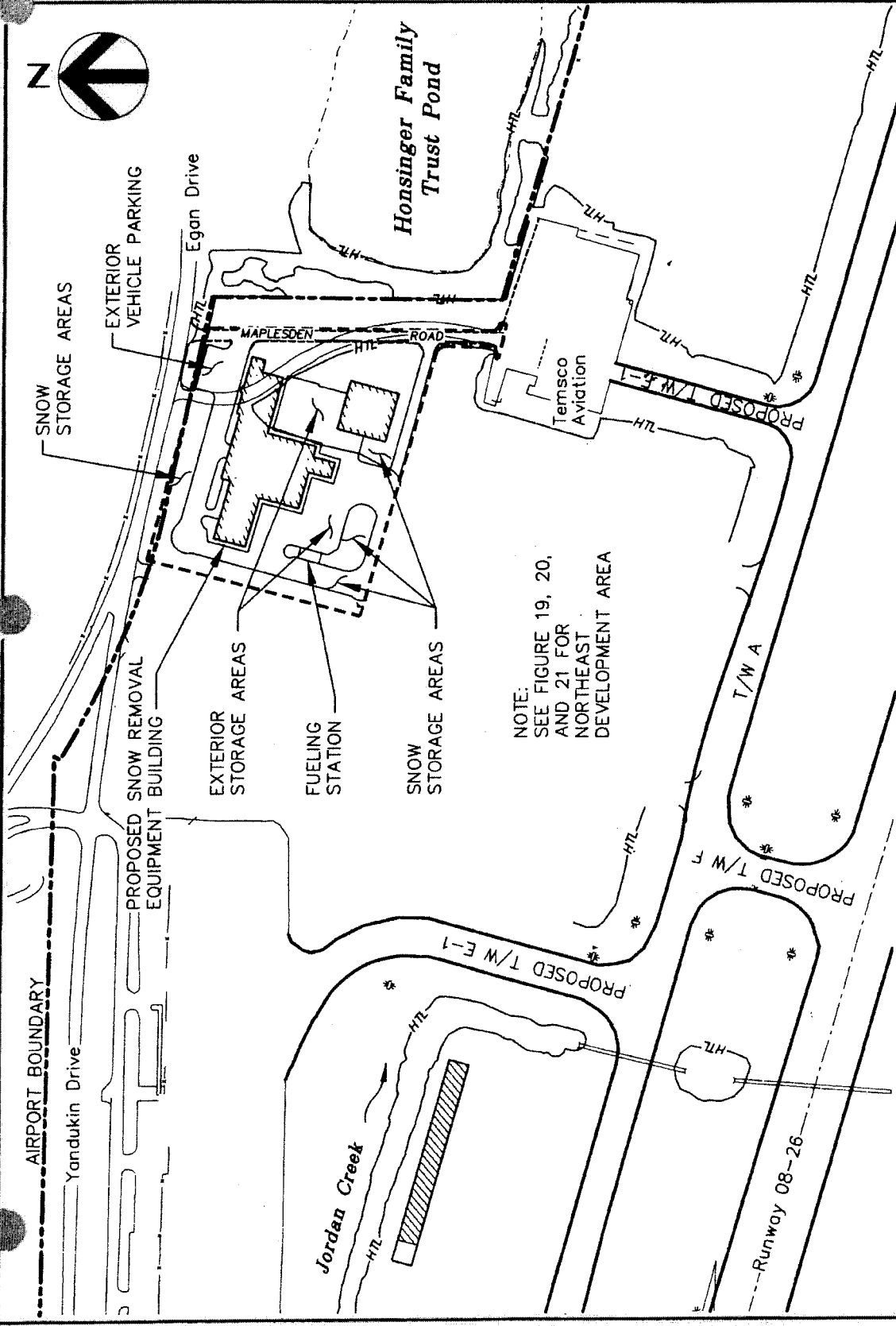
SOURCE DATA PROVIDED BY CBI, AND SWCA INC.

PURPOSE: INCREASE SNOW REMOVAL EQUIPMENT CAPACITY AND REDUCE MOBILIZATION TIME FOR SNOW REMOVAL OPERATIONS
 DATUM: MEAN LOW LOW WATER (MLLW)

SECTION VIEW
 SCALE: 1" = 80'
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

SNOW REMOVAL EQUIPMENT FACILITY PROJECT
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 16 of 51

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NOTE:
SEE FIGURE 19, 20,
AND 21 FOR
NORTHEAST
DEVELOPMENT AREA

SOURCE DATA PROVIDED BY CBI,
AND SWCA INC.

PURPOSE: INCREASE SNOW EQUIPMENT
CAPACITY AND REDUCE
MOBILIZATION TIME FOR SNOW
REMOVAL OPERATIONS
DATUM: MEAN LOW LOW WATER (MILLW)

LOCATION: T. 40S, R. 66E, Sec. 32
COPPER RIVER MERIDIAN

LAYOUT VIEW

SCALE: 1" = 300'
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

**SNOW REMOVAL EQUIPMENT
FACILITY PROJECT**

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15 2008
Sheet 17 of 51



APPROXIMATE
EXTENT OF WETLAND
LIMITS (TYPICAL)

IMPACTED WETLANDS
AREA (TYPICAL)

PROPOSED SREF SITE
(SEE FIGURES 16, 17, AND 18)

NORTHEAST
DEVELOPMENT
PROPOSED
PARKING AREA

Honsinger Family
Trust Pond

SEE FIGURE 20

DISTURBED
WETLANDS

SEE FIGURE 20

DISTURBED
WETLANDS

NOTE:
SEE FIGURE 20 FOR
SECTION VIEWS A, AND B

SOURCE DATA PROVIDED BY CBI,
AND SWCA INC.

AIRPORT BOUNDARY
Yandukin Drive

EXISTING ASOS SITE
TO BE RELOCATED

Jordan Creek

PROPOSED T/W E-1

Maplesden Road

Temasco Aviation

T/W F

T/W A

Runway 08-26

PURPOSE: PROVIDE AVIATION FACILITIES
TO SATISFY EXISTING DEMAND
FOR COMMERCIAL AND GENERAL
AVIATION AIRCRAFT

DATUM: MEAN LOW LOW WATER (MLLW)

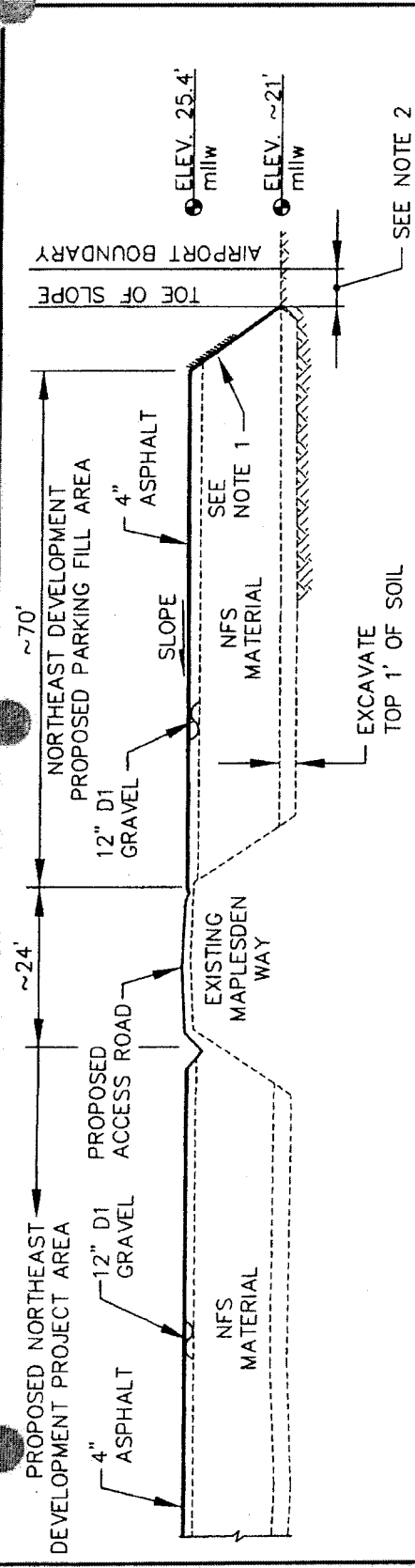
LOCATION: T. 4DS. R. 66E. SEC. 31, 32
COPPER RIVER MERIDIAN

PLAN VIEW

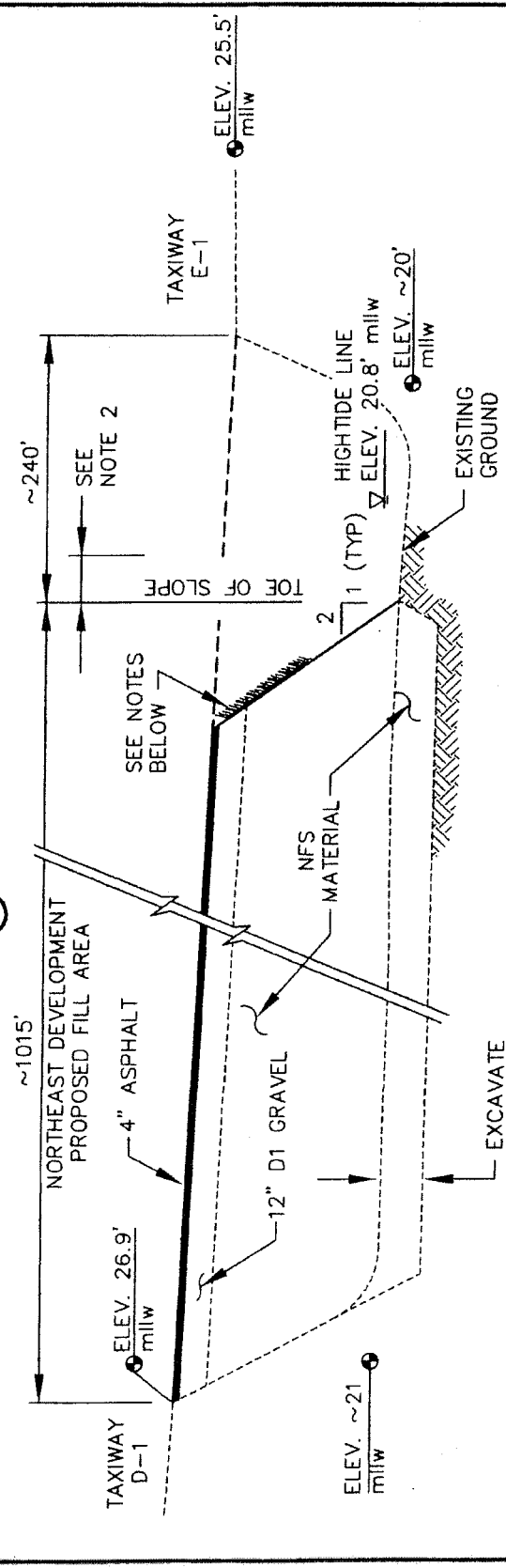
SCALE: 1" = 300'
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
JUNEAU, ALASKA
99801

**NORTHEAST DEVELOPMENT
PROJECT**

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15 2008
Sheet 18 of 51



(B) NE DEVELOPMENT PROPOSED PARKING



(A) NE DEVELOPMENT FILL

SOURCE DATA PROVIDED BY CBI, AND SWCA INC.

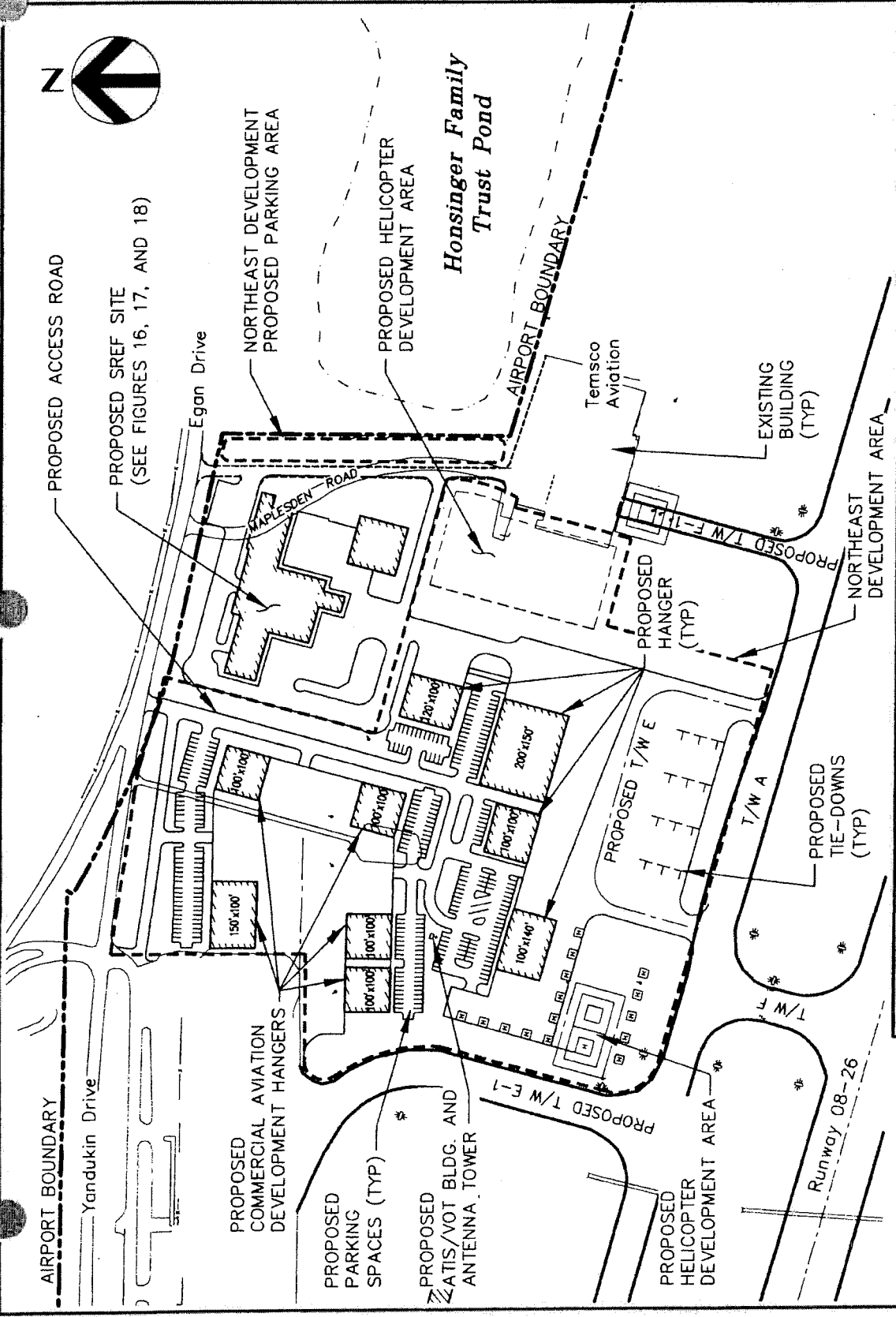
NOTES

- SLOPES SHALL BE TREATED WITH 4" TOPSOIL AND SEEDED WITH UNPALATABLE GRASS SPECIES.
- THERE WILL ALSO BE DISTURBANCE 10 FEET FROM TOE OF SLOPE.

PURPOSE: PROVIDE AVIATION FACILITIES TO SATISFY EXISTING DEMAND FOR COMMERCIAL AND GENERAL AVIATION AIRCRAFT
 DATUM: MEAN LOW LOW WATER (MLLW)
 LOCATION: T. 40S, R. 66E, Sec. 31, 32
 COPPER RIVER MERIDIAN

SECTION VIEW
 SCALE: NTS
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

NORTHEAST DEVELOPMENT PROJECT
POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15 2008
Sheet 19 of 51



SOURCE DATA PROVIDED BY CBU,
AND SHCA INC.

PURPOSE: PROVIDE AVIATION FACILITIES
TO SATISFY EXISTING DEMAND
FOR COMMERCIAL AND GENERAL
AVIATION AIRCRAFT

DATUM: MEAN LOW LOW WATER (MLLW)

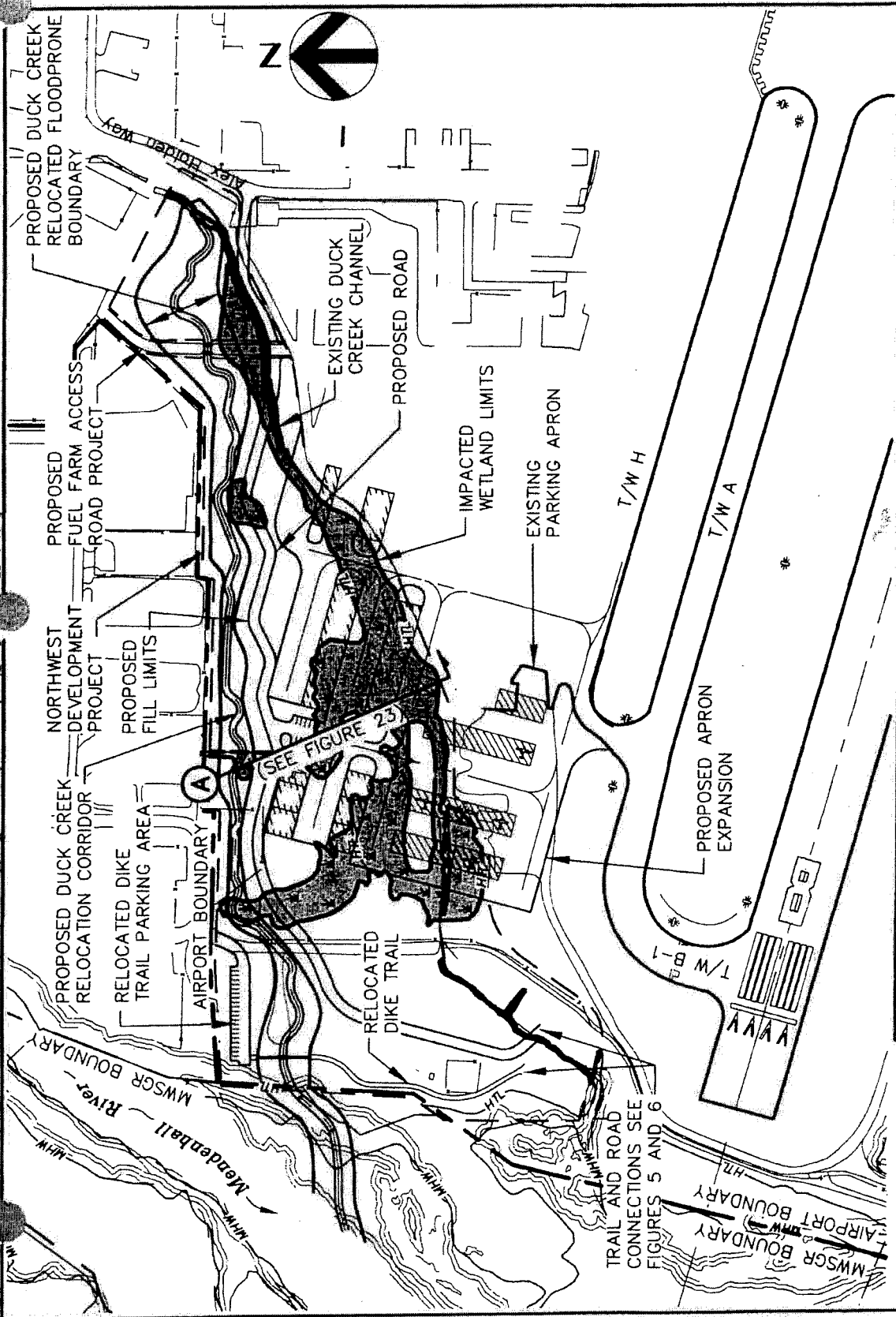
LOCATION: T. 40S. R. 66E. SEC. 31, 32
COPPER RIVER MERIDIAN

LAYOUT VIEW

SCALE: 1" = 300'
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
JUNEAU, ALASKA
99801

**NORTHEAST DEVELOPMENT
PROJECT**

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 20 of 51

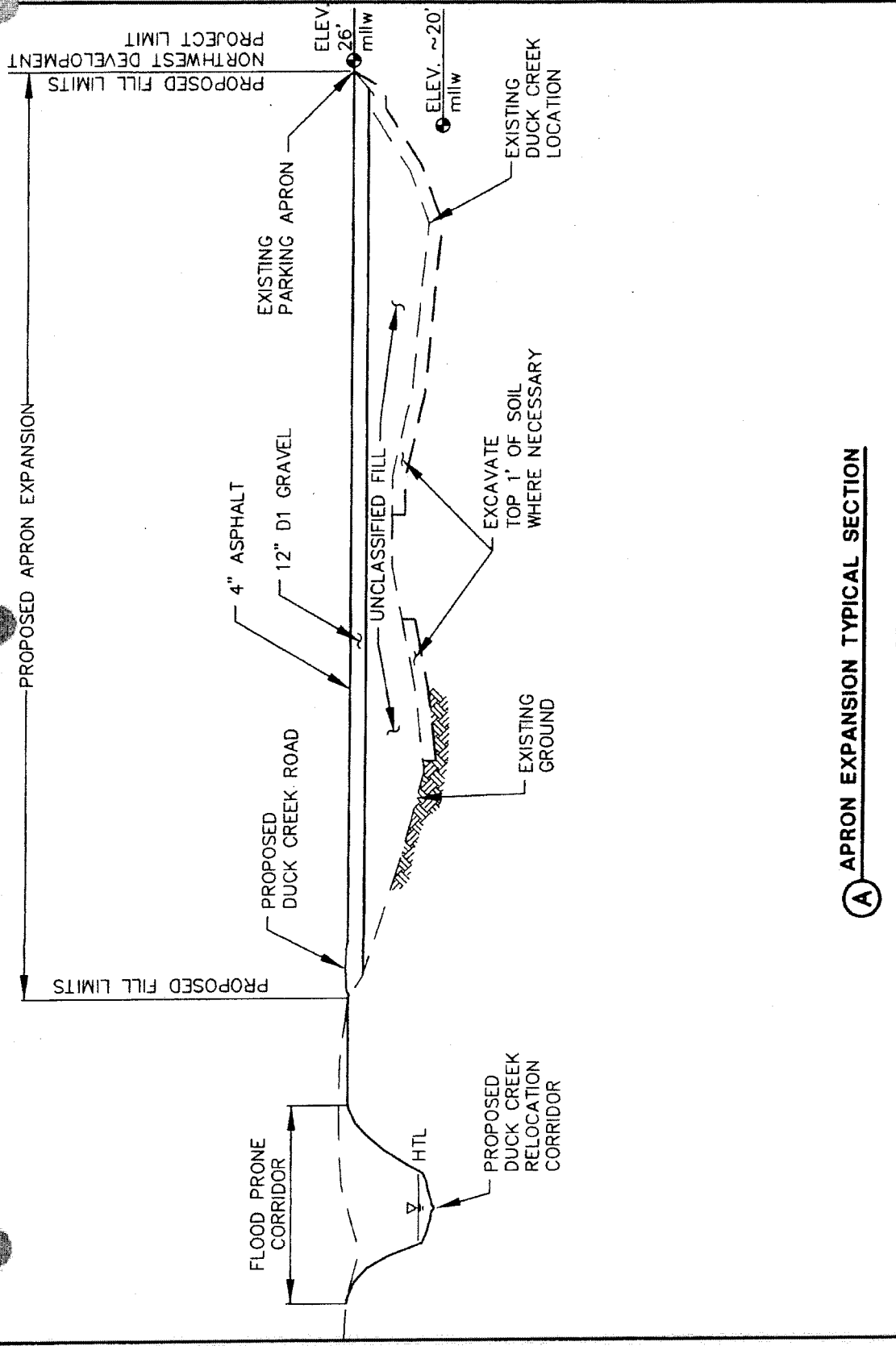


NORTHWEST DEVELOPMENT PROJECT
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 21 of 51

APRON EXPANSION PLAN VIEW
 SCALE: 1" = 300'
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA
 99801

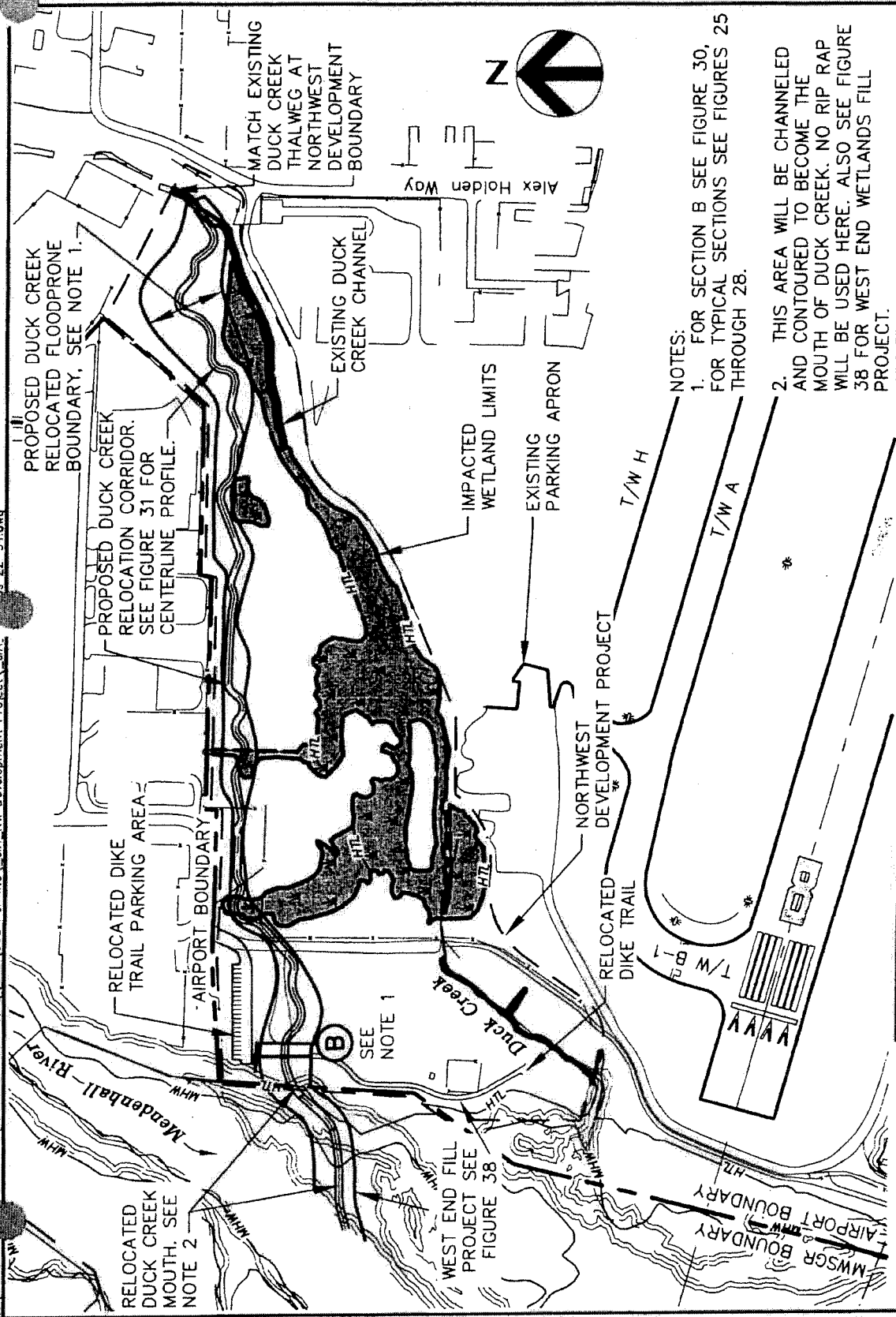
PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT
DATUM: MEAN LOW LOW WATER (MLLW)
LOCATION: T. 40S, R. 65E, Sec. 36
 T. 40S, R. 66E, Sec. 31
 COPPER RIVER MERIDIAN

SOURCE DATA PROVIDED BY CBI, AND SWCA INC.



(A) APRON EXPANSION TYPICAL SECTION

<p>SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.</p> <p>ELEVATIONS ARE PROVISIONAL ONLY. BASED ON CBJ'S 2001 LIDAR DATA THAT HAS NOT BEEN FULLY CORRECTED BY QUALITY CONTROL PROCEDURES. THIS INFORMATION IS PROVIDED FOR PLANNING PURPOSES ONLY, AND MAY BE REVISED IN THE FUTURE. FAA, CBJ, AND HDR ASSUME NO LIABILITY FOR THE USE OF THIS DATA.</p>	<p>PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 6SE, Sec. 36 T. 40S, R. 6SE, Sec. 31 COPPER RIVER MERIDIAN</p>	<p>APRON EXPANSION TYPICAL SECTION</p> <p>NOT TO SCALE</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE JUNEAU, ALASKA 99801</p>	<p>NORTHWEST DEVELOPMENT PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 22 of 51</p>
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PROPOSED DUCK CREEK RELOCATED FLOODPRONE BOUNDARY, SEE NOTE 1.

PROPOSED DUCK CREEK RELOCATION CORRIDOR. SEE FIGURE 31 FOR CENTERLINE PROFILE.

RELOCATED DIKE TRAIL PARKING AREA

RELOCATED DUCK CREEK MOUTH. SEE NOTE 2.

EXISTING DUCK CREEK CHANNEL

IMPACTED WETLAND LIMITS

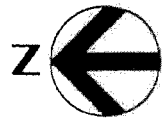
EXISTING PARKING APRON

NORTHWEST DEVELOPMENT PROJECT

RELOCATED DIKE TRAIL

MATCH EXISTING DUCK CREEK THALWEG AT NORTHWEST DEVELOPMENT BOUNDARY

Alex Holden Way



NOTES:

1. FOR SECTION B SEE FIGURE 30, FOR TYPICAL SECTIONS SEE FIGURES 25 THROUGH 28.
2. THIS AREA WILL BE CHANNELLED AND CONTOURED TO BECOME THE MOUTH OF DUCK CREEK. NO RIP RAP WILL BE USED HERE. ALSO SEE FIGURE 38 FOR WEST END WETLANDS FILL PROJECT.

PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 65E, Sec. 36
T. 40S, R. 66E, Sec. 31
COPPER RIVER MERIDIAN

SOURCE DATA PROVIDED BY CBI, AND SWCA INC.

DUCK CREEK RELOCATION PLAN VIEW

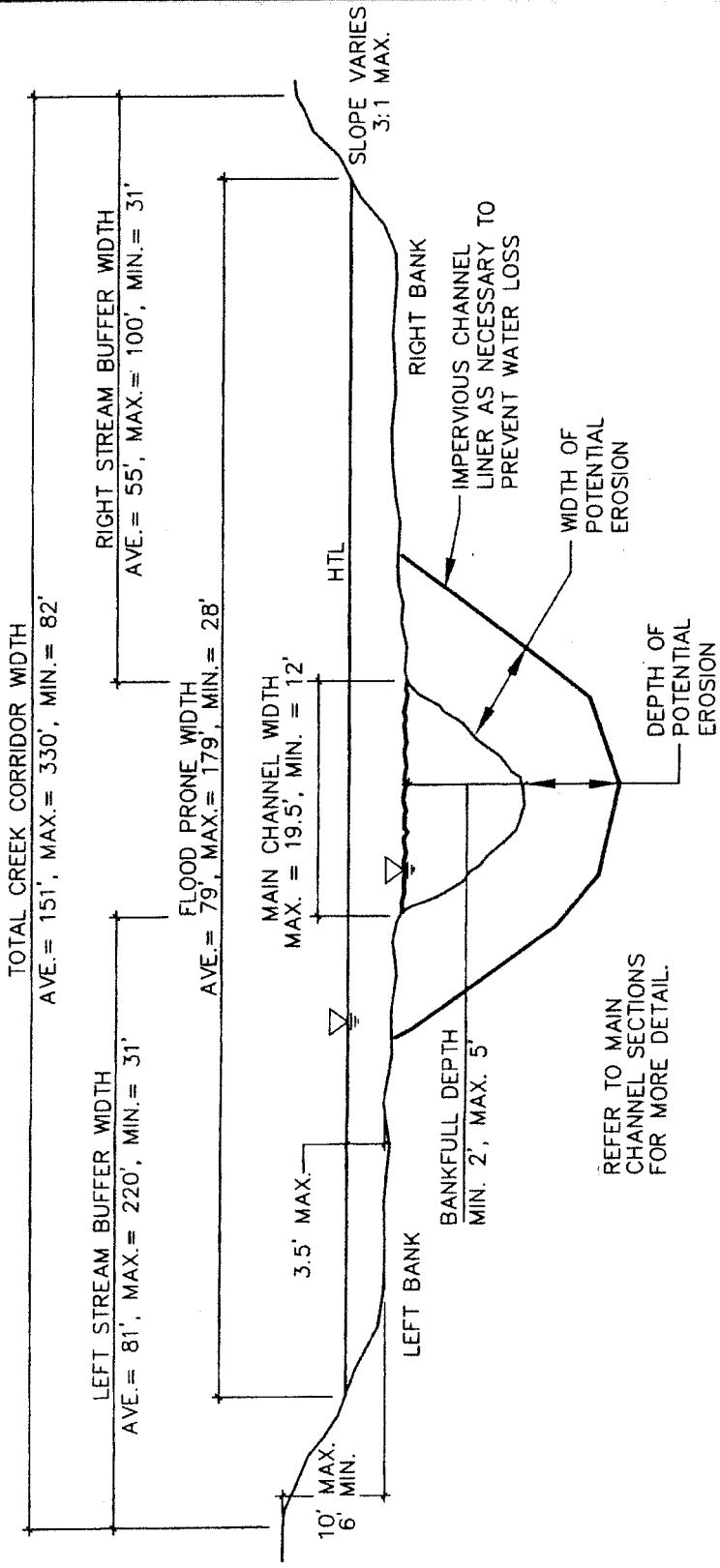
SCALE: 1" = 300'

APPLICATION BY:

JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

NORTHWEST DEVELOPMENT PROJECT

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 23 of 51

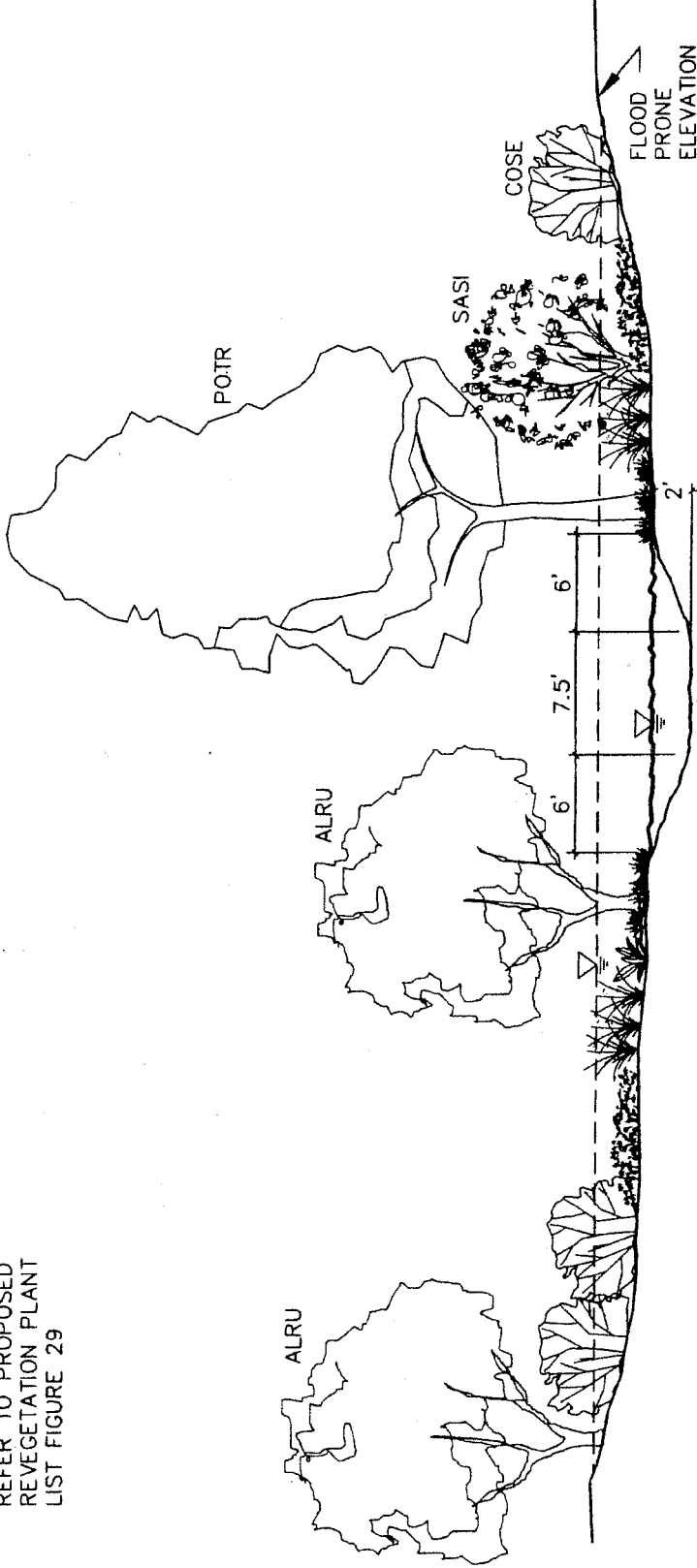


TYPICAL DUCK CREEK CORRIDOR SECTION
LOOKING DOWNSTREAM

<p>PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 65E, Sec. 36 T. 40S, R. 65E, Sec. 31 COPPER RIVER MERIDIAN</p>	<p>DUCK CREEK RELOCATION TYPICAL CREEK SECTION</p> <p>NOT TO SCALE</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE JUNEAU, ALASKA 99801</p>	<p>NORTHWEST DEVELOPMENT PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 24 of 51</p>
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SOURCE DATA PROVIDED BY CBU, AND SWCA INC.

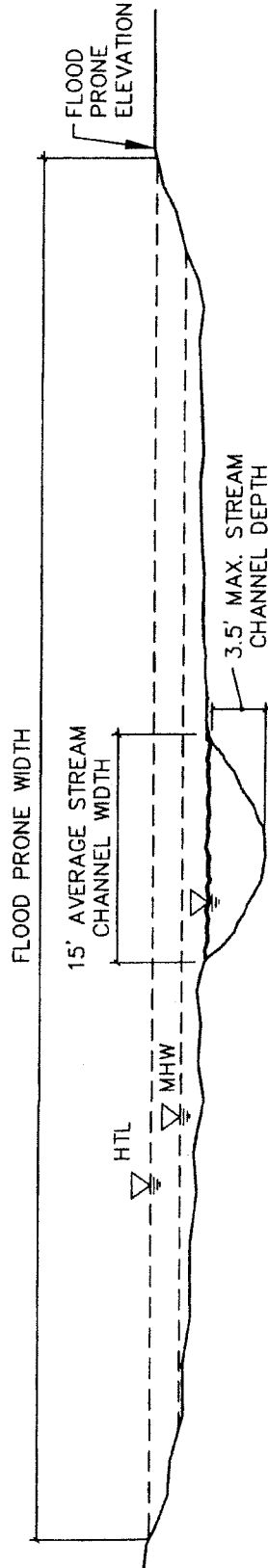
REFER TO PROPOSED
REVEGETATION PLANT
LIST FIGURE 29



**TYPICAL DUCK CREEK MAIN CHANNEL
RIFFLE SECTION (ABOVE TIDAL INFLUENCE)**
LOOKING DOWNSTREAM

<p>SOURCE DATA PROVIDED BY CBI, AND SWCA INC.</p>	<p>PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 6SE, Sec. 36 T. 40S, R. 6SE, Sec. 31 COPPER RIVER MERIDIAN</p>	<p>DUCK CREEK RELOCATION TYPICAL RIFFLE SECTION</p> <p>SCALE: NOT TO SCALE</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE JUNEAU, ALASKA 99801</p>	<p>NORTHWEST DEVELOPMENT PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 25 of 51</p>
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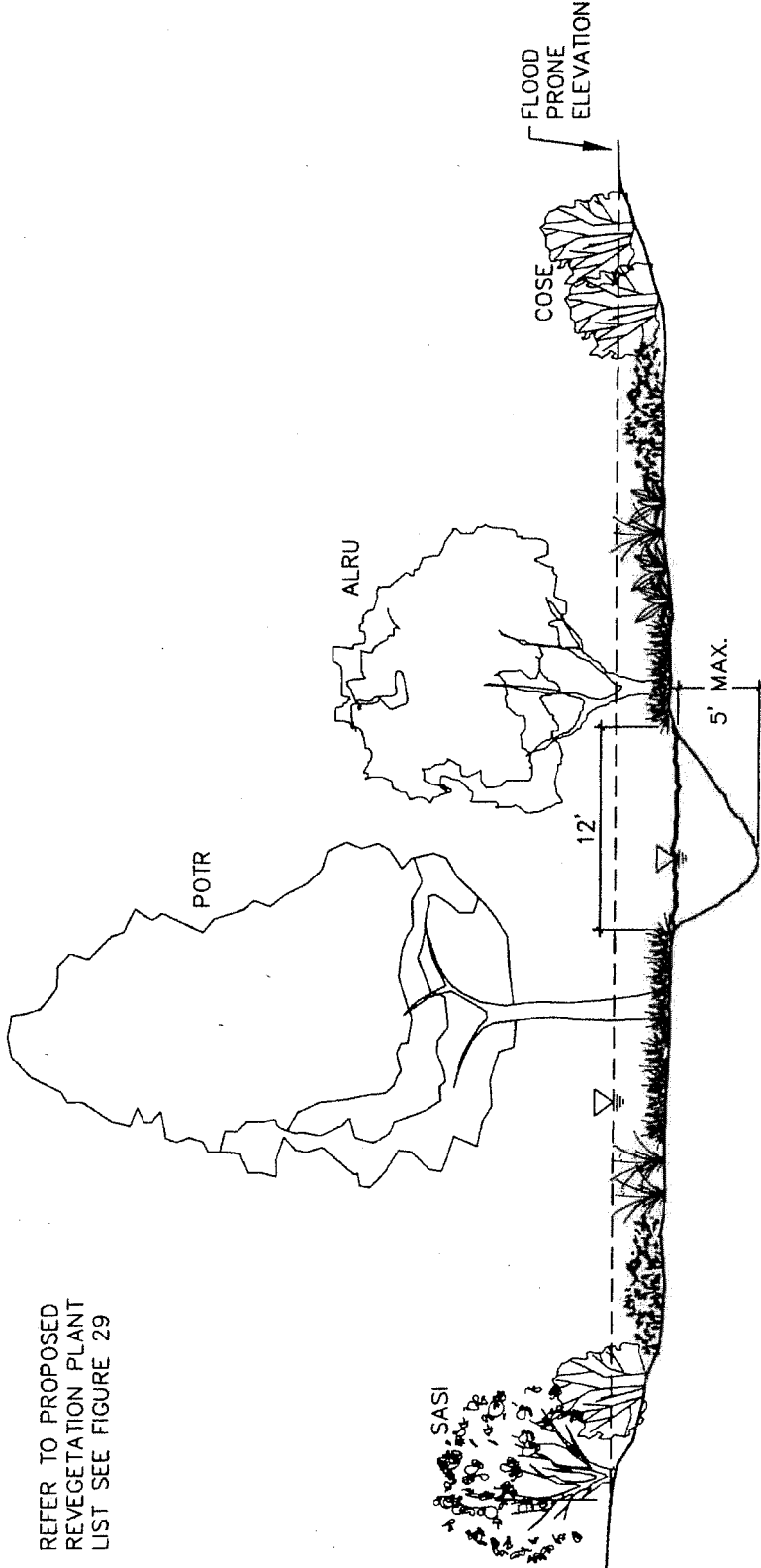


TYPICAL DUCK CREEK MOUTH CHANNEL SECTION (BELOW TIDAL INFLUENCE)

LOOKING DOWNSTREAM

<p>SOURCE DATA PROVIDED BY CBI, AND SWCA INC.</p>	<p>PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 65E, Sec. 36 T. 40S, R. 66E, Sec. 31 COPPER RIVER MERIDIAN</p>	<p>DUCK CREEK RELOCATION TYPICAL TRANSITION SECTION</p> <p>SCALE: NTS</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>NORTHWEST DEVELOPMENT PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 26 of 51</p>
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REFER TO PROPOSED
REVEGETATION PLANT
LIST SEE FIGURE 29



**TYPICAL DUCK CREEK MAIN CHANNEL
POOL SECTION (ABOVE TIDAL INFLUENCE)**
LOOKING DOWNSTREAM

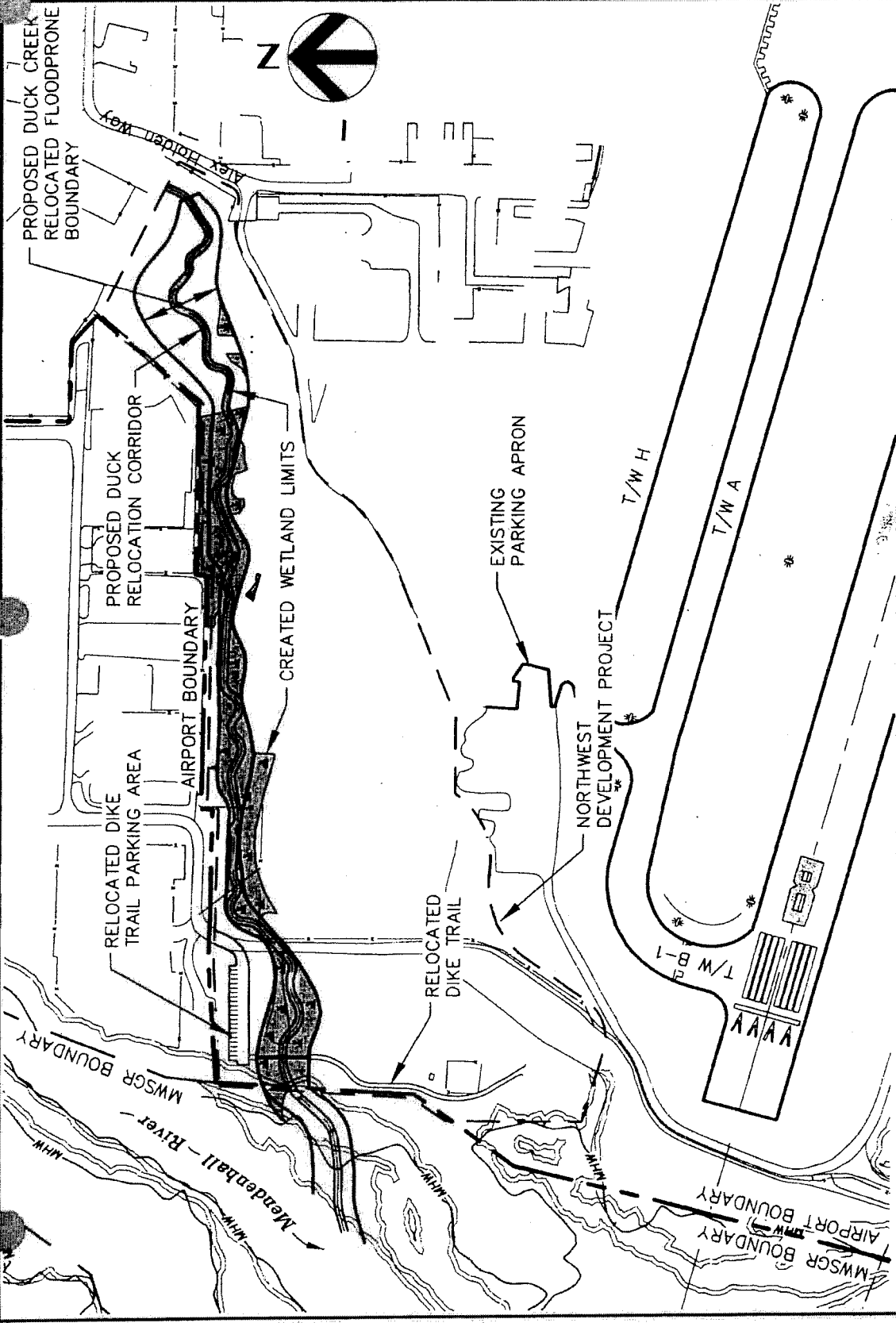
PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT
DATUM: MEAN LOW LOW WATER (MLLW)
LOCATION: T. 40S. R. 65E. SEC. 36
T. 40S. R. 65E. SEC. 31
COPPER RIVER MERIDIAN

**DUCK CREEK RELOCATION
TYPICAL POOL SECTION**
SCALE: NOT TO SCALE
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

**NORTHWEST
DEVELOPMENT PROJECT**
POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 27 of 51

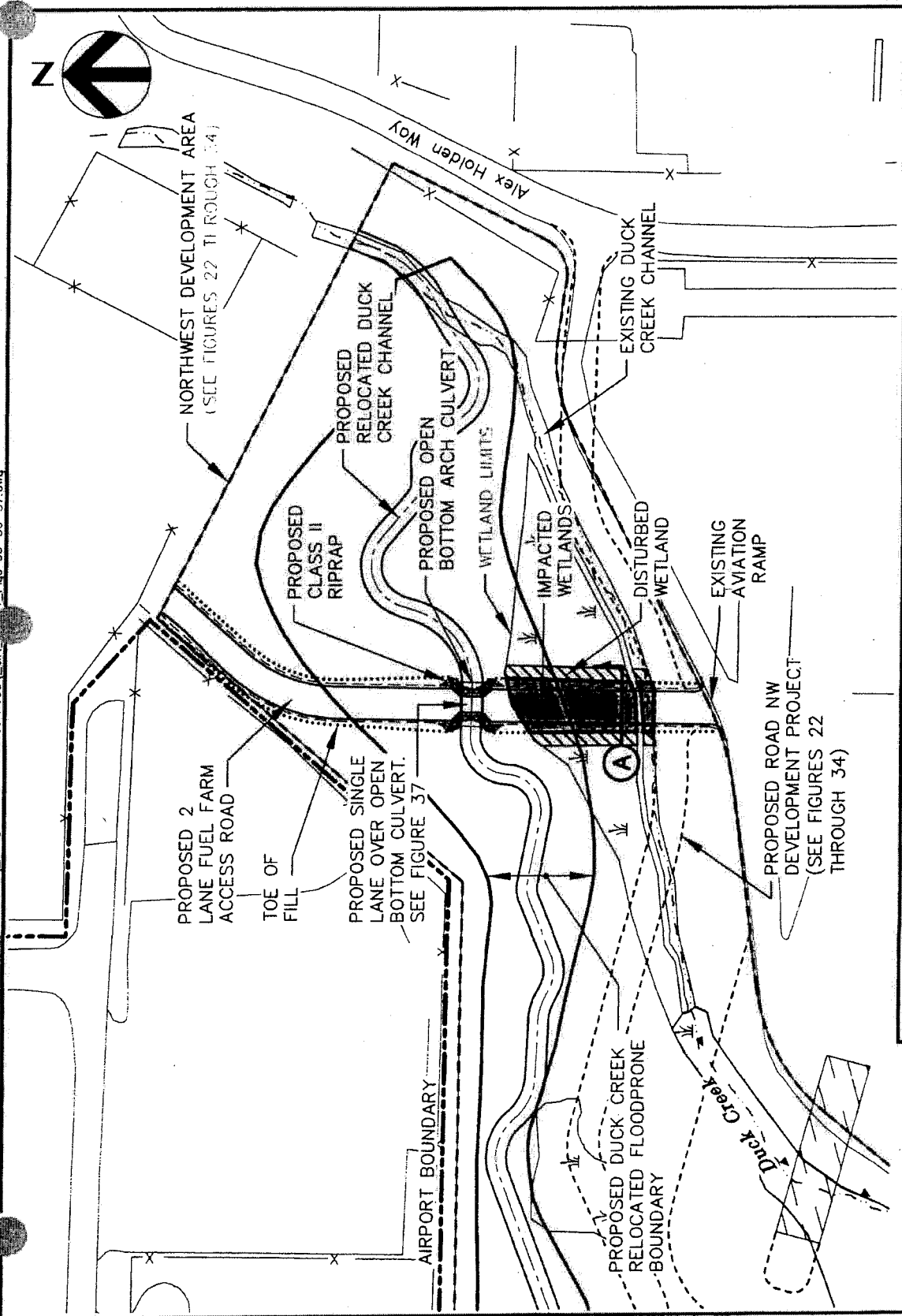
SOURCE DATA PROVIDED BY CBI,
AND SWCA INC.

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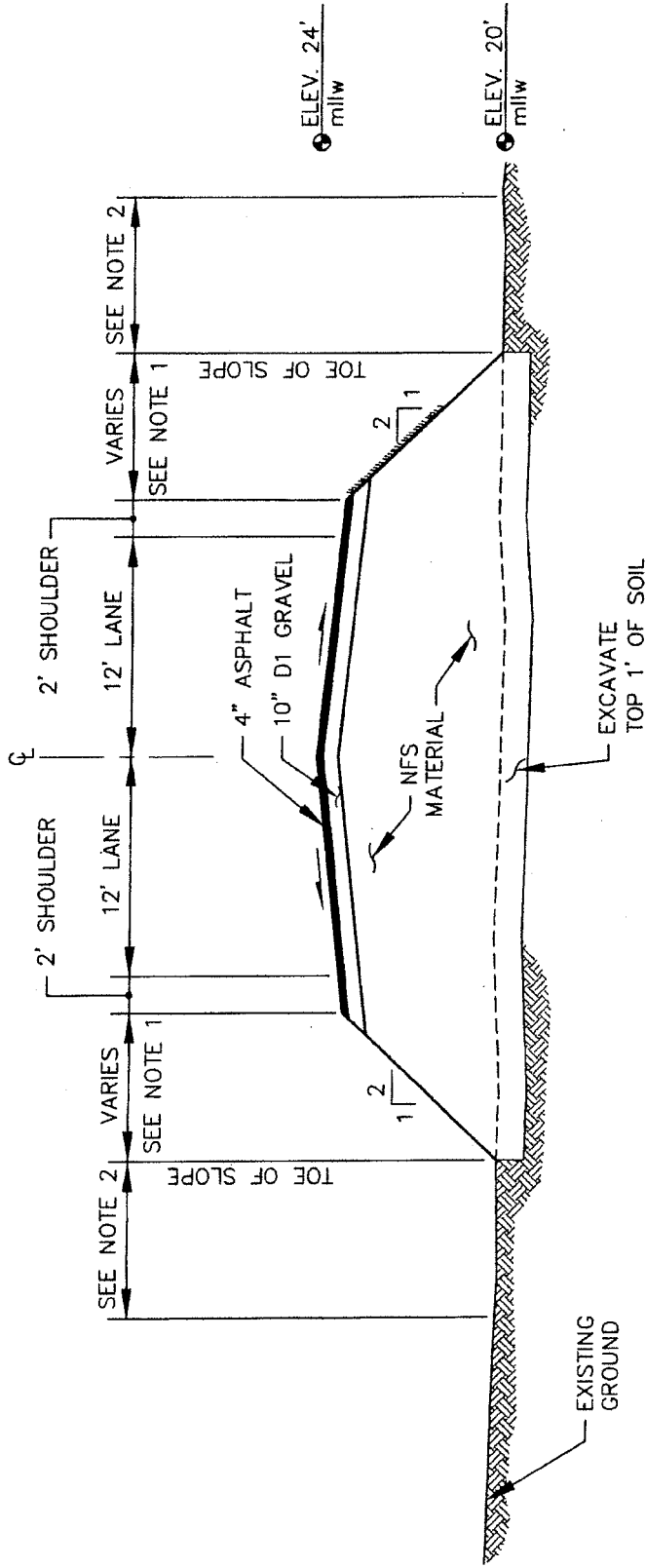


<p>DUCK CREEK CREATED WETLANDS PLAN VIEW</p> <p>SCALE: 1" = 300' APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>NORTHWEST DEVELOPMENT PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 29 of 51</p>
<p>PURPOSE: PROVIDE SUFFICIENT PARKING AND HANGAR FACILITIES TO SATISFY EXISTING DEMAND FOR GENERAL AVIATION AIRCRAFT</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S. R. 65E. SEC. 36 T. 40S. R. 65E. SEC. 31 COPPER RIVER MERIDIAN</p>	<p>SOURCE DATA PROVIDED BY CBU, AND SWCA INC.</p>

Z:\200868\p.Dom.Inc\12893 JIA Permitting\CAD\COE Permits\JIA_Fuel Farm Access Road\JIA_Figs 35-36-37.dwg



<p>FUEL FARM ACCESS ROAD PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 31 of 51</p>	<p>PLAN VIEW</p> <p>SCALE: 1" = 100'</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>PURPOSE: TO PROVIDE SAFE AND EFFICIENT FUEL TRANSPORT BETWEEN THE BULK FUEL FARM AND THE GENERAL AVIATION RAMP</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 66E, Sec. 31 COPPER RIVER MERIDIAN</p>	<p>SOURCE DATA PROVIDED BY CBU, AND SWCA INC.</p>
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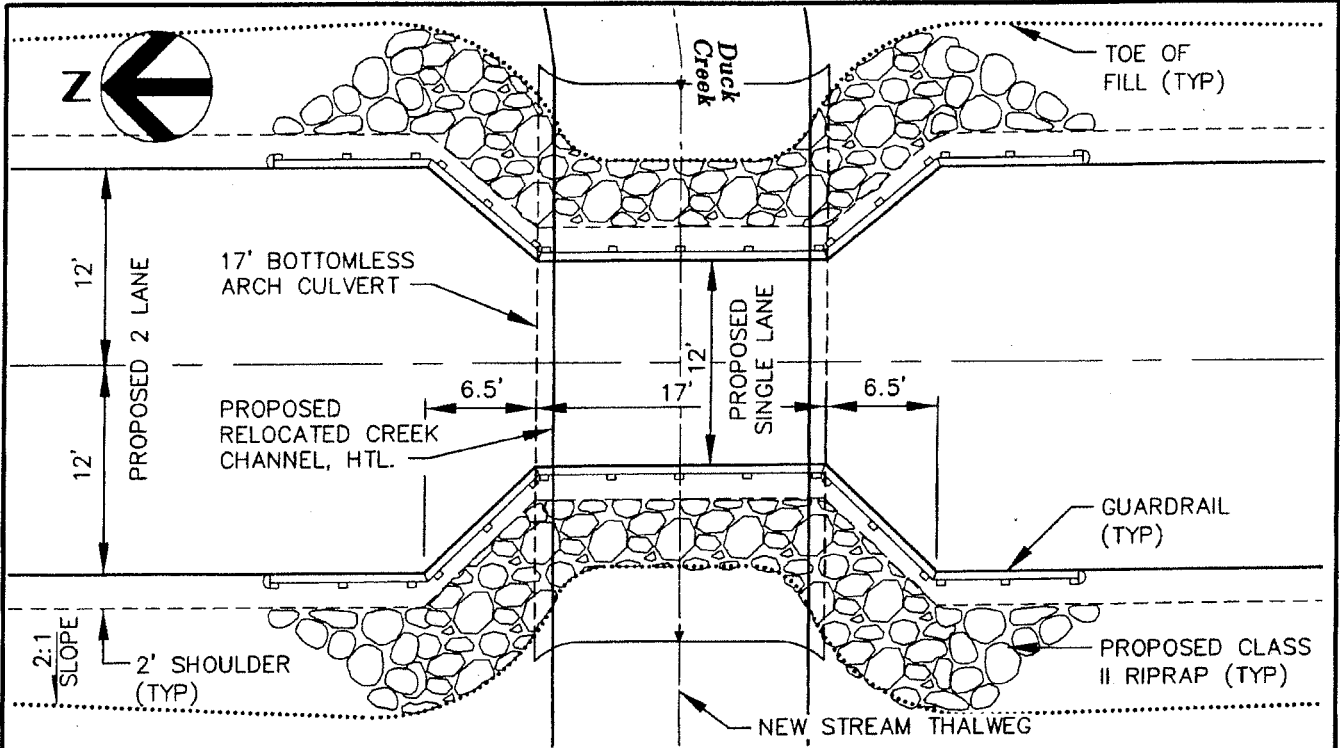


NOTES

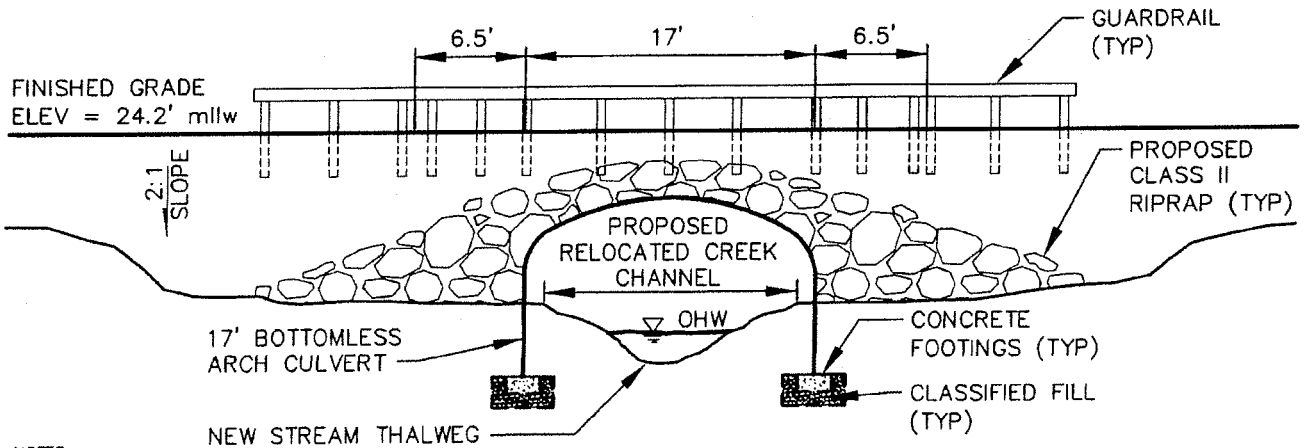
1. THE FILL SLOPES WILL HAVE A 2:1 SLOPE AND SHALL BE TREATED WITH 4" TOPSOIL AND SEEDED WITH UNPALATABLE GRASS SPECIES.
2. THERE WILL ALSO BE DISTURBANCE 10 FEET FROM TOE OF SLOPE.

(A) FUEL FARM ACCESS ROAD

<p>SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.</p> <p>ELEVATIONS ARE PROVISIONAL ONLY, BASED ON GROUND SURVEY DATA THAT HAS NOT BEEN FULLY CORRECTED. THIS INFORMATION IS PROVIDED FOR PLANNING PURPOSES ONLY AND MAY BE REVISED IN THE FUTURE. FAA, CBJ, AND HDR ASSUME NO LIABILITY FOR THE USE OF THIS DATA.</p>	<p>PURPOSE: TO PROVIDE SAFE AND EFFICIENT FUEL TRANSPORT BETWEEN THE BULK FUEL FARM AND THE GENERAL AVIATION RAMP</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S., R. 66E, SEC. 31 COPPER RIVER MERIDIAN</p>	<p>CROSS SECTION</p> <p>NOT TO SCALE</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>FUEL FARM ACCESS ROAD PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 32 of 51</p>
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DUCK CREEK CROSSING PLAN VIEW



DUCK CREEK CROSSING END SECTION

NOTES:

1. SEE FIGURES 22 THROUGH 34 FOR NORTHWEST DEVELOPMENT PROJECT AND DUCK CREEK RELOCATION.
2. CROSSING WILL BE CONSTRUCTED BEFORE WATER IS DIRECTED INTO THE CHANNEL IT CROSSES.
3. ELEVATIONS ARE PROVISIONAL ONLY, BASED ON CBJ's 2001 LIDAR DATA THAT HAS NOT BEEN FULLY CONFIRMED BY QUALITY CONTROL PROCEDURES. THIS INFORMATION IS PROVIDED FOR PLANNING PURPOSES ONLY, AND MAY BE REVISED IN THE FUTURE. FAA, CBJ, AND HDR ASSUME NO LIABILITY FOR THE USE OF THIS DATA.

SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.

PURPOSE: TO PROVIDE SAFE AND EFFICIENT FUEL TRANSPORT BETWEEN THE BULK FUEL FARM AND THE GENERAL AVIATION RAMP

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 66E, Sec. 31
COPPER RIVER MERIDIAN

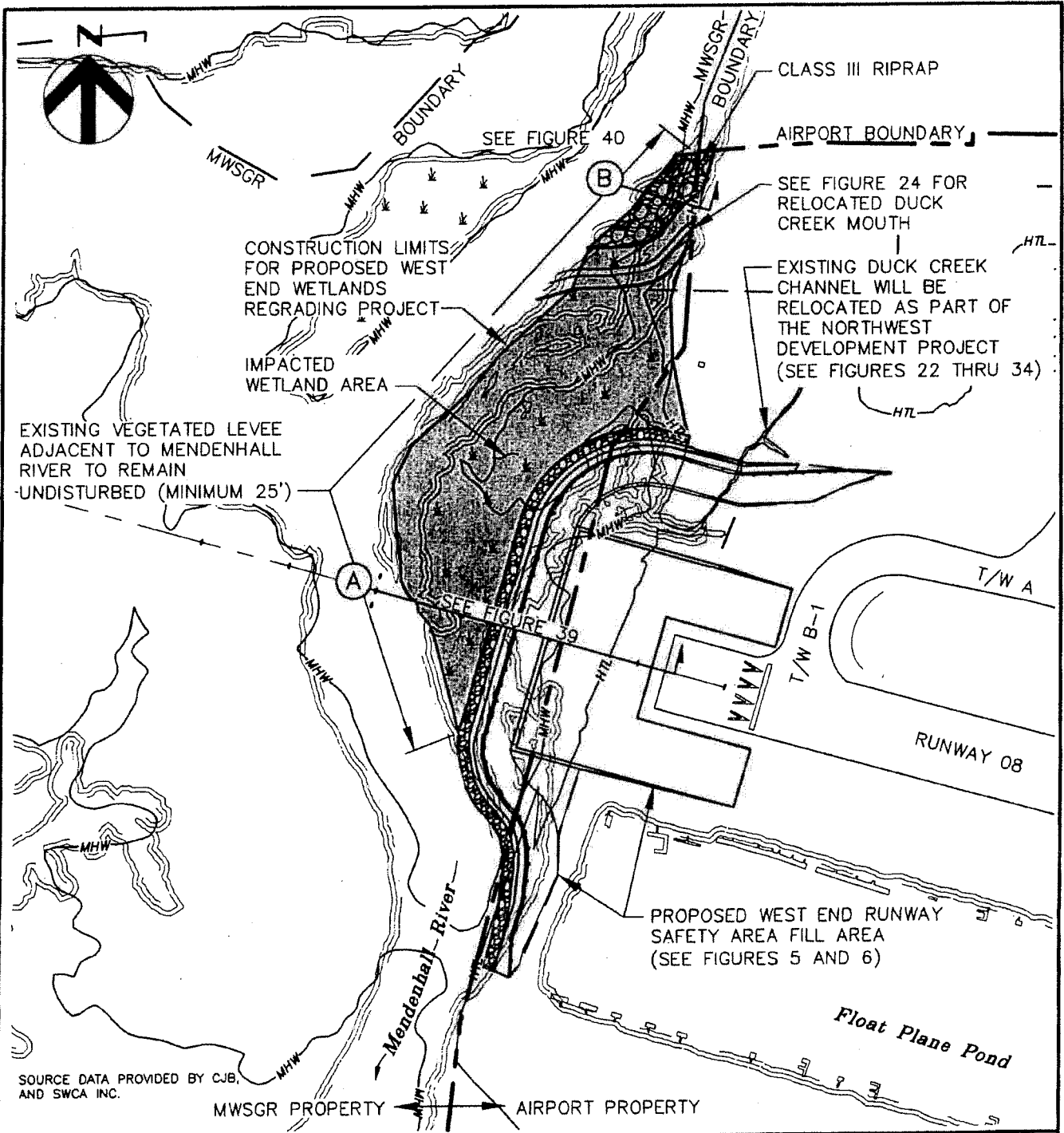
**DUCK CREEK CROSSING
DETAILS**

NOT TO SCALE
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

**FUEL FARM ACCESS ROAD
PROJECT**

**POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 33 of 51**

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SOURCE DATA PROVIDED BY CJB,
AND SWCA INC.

PURPOSE: PROVIDE INCREASED SAFETY AT
JUNEAU INTERNATIONAL AIRPORT

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 65E, Sec. 36
COPPER RIVER MERIDIAN

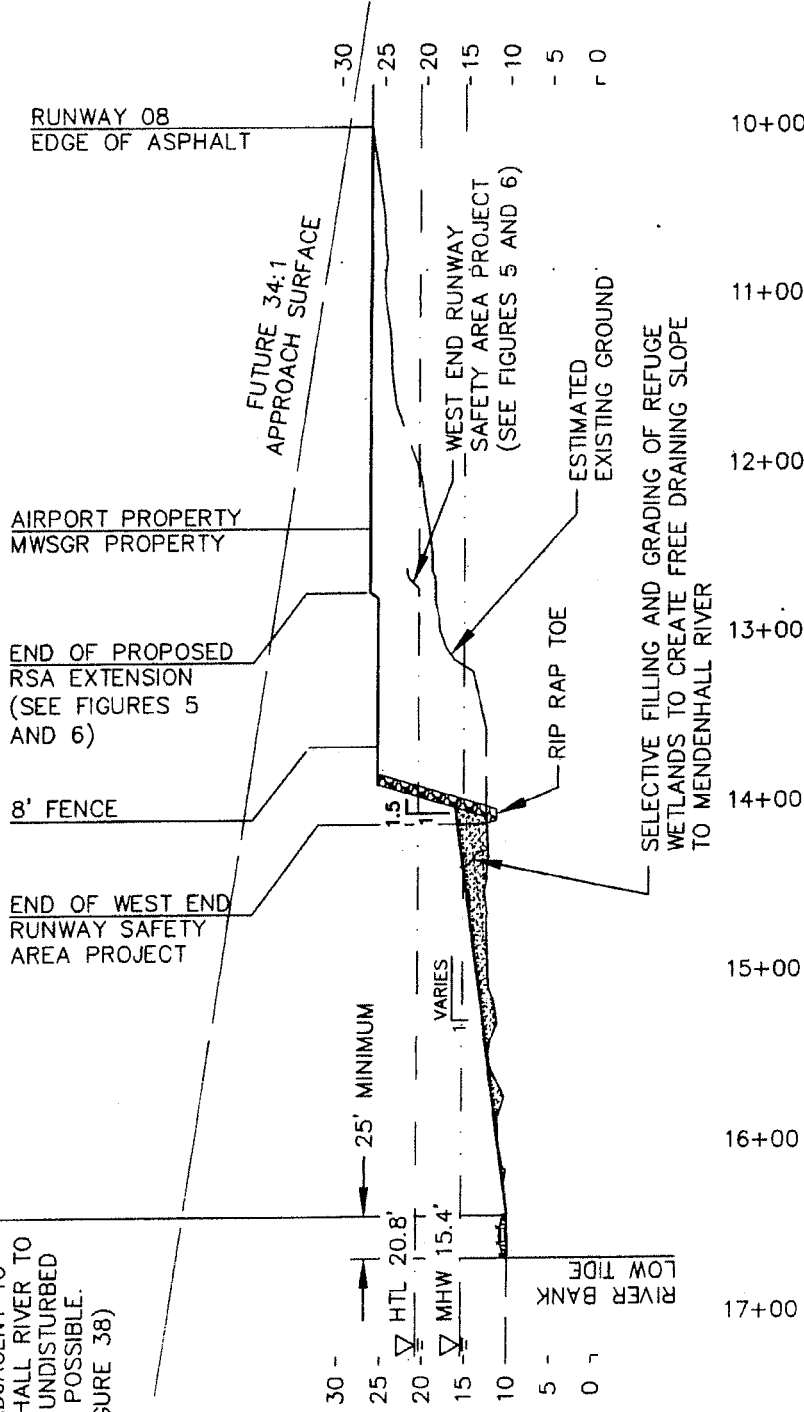
**WILDLIFE HAZARD
REDUCTION REGRADING
PLAN VIEW**

SCALE: 1" = 400'
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

**WEST-END WETLANDS
REGRADING PROJECT**
POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 34 of 51

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END OF WILDLIFE HABITAT
REDUCTION FILL
EXISTING VEGETATED
LEVEE ADJACENT TO
MENDENHALL RIVER TO
REMAIN UNDISTURBED
WHERE POSSIBLE.
(SEE FIGURE 38)



CROSS SECTION

APPROX. SCALE: 1" = 100'
WITH 5X VERTICAL EXAGGERATION

SOURCE DATA PROVIDED BY CUB,
AND SWCA INC.

ELEVATIONS ARE PROVISIONAL ONLY, BASED ON
CUB'S 2001 LIDAR DATA THAT HAS NOT BEEN
CORRECTED FOR TYPICAL SLURRY CONTROL
PROCEDURES. THIS INFORMATION IS PROVIDED
FOR PLANNING PURPOSES ONLY AND MAY BE
REVISED IN THE FUTURE. FAA, CUB, AND HDR
ASSUME NO LIABILITY FOR THE USE OF THIS
DATA.

PURPOSE: PROVIDE INCREASED SAFETY AND
OPERATIONAL EFFICIENCY AT
JUNEAU INTERNATIONAL AIRPORT

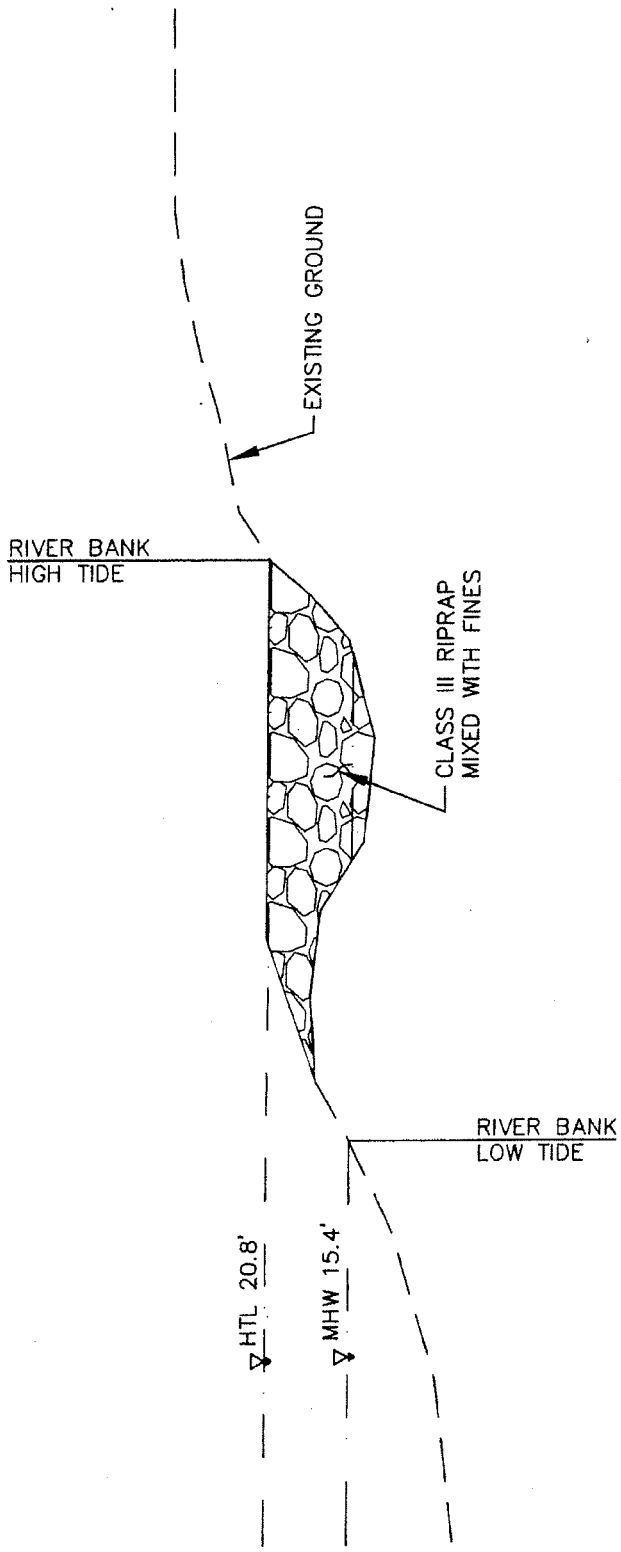
DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 66E, Sec. 36
T. 40S, R. 66E, Sec. 31, 32
T. 41S, R. 66E, Sec. 1
COPPER RIVER MERIDIAN

**WILDLIFE HAZARD
REDUCTION REGRADING
CROSS SECTION**

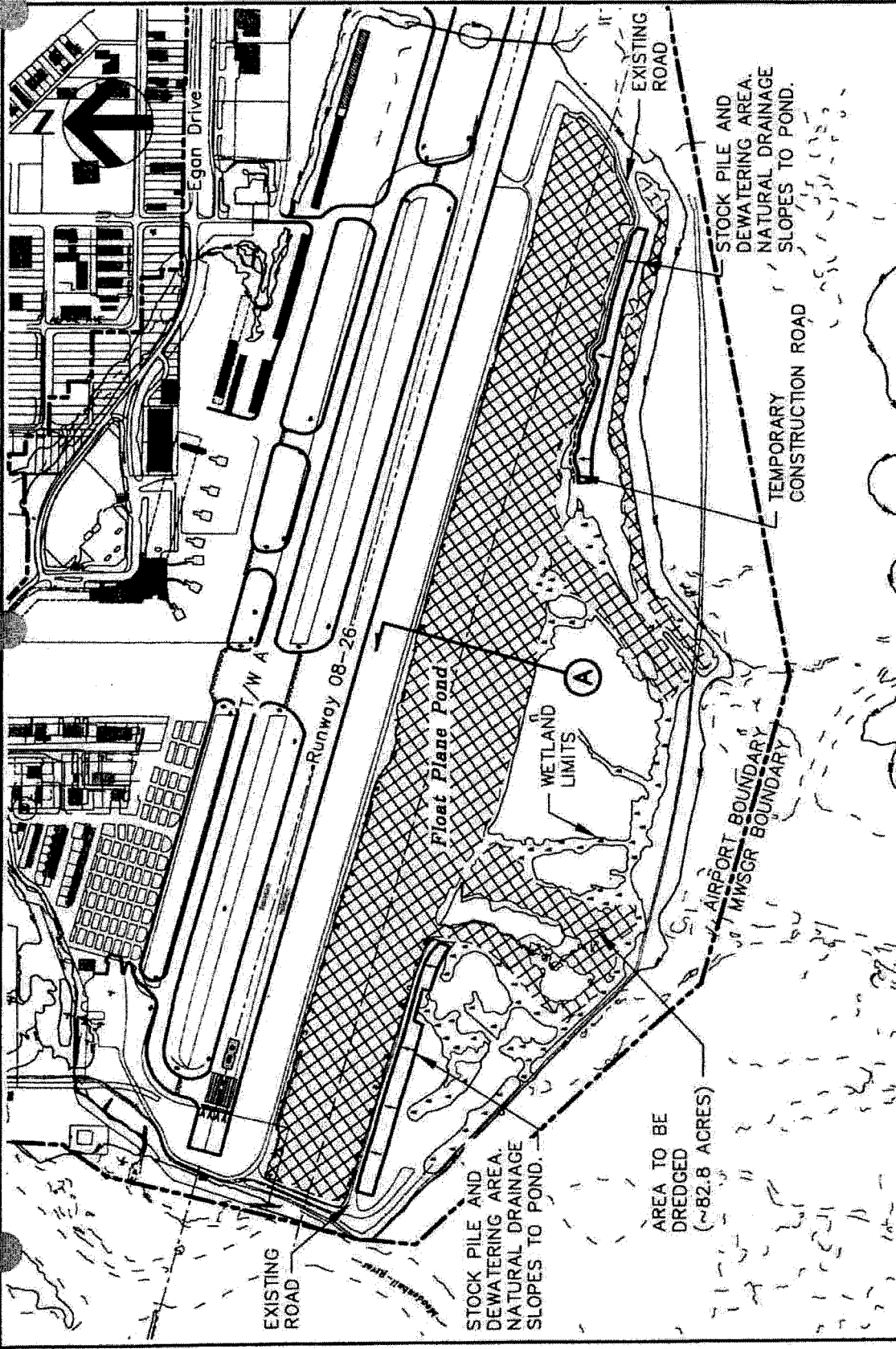
NOT TO SCALE
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

**WEST-END WETLANDS
REGRADING PROJECT**
POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 35 of 51

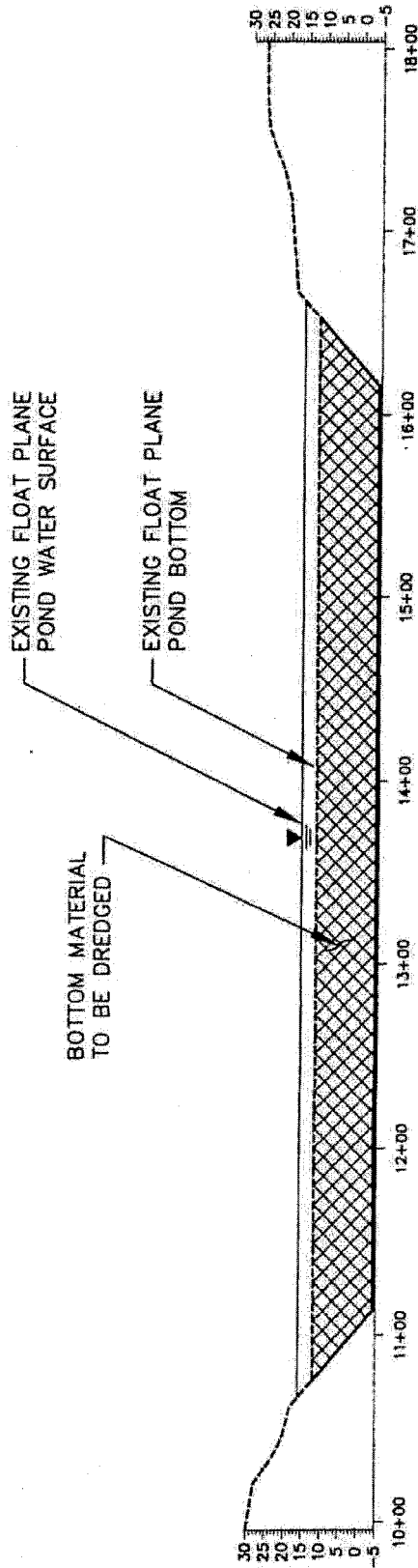


(B) CROSS SECTION
NOT TO SCALE

<p>SOURCE DATA PROVIDED BY CJB, AND SWCA INC.</p> <p>ELEVATIONS ARE PROVISIONAL ONLY, BASED ON CJB'S 2001 LOAD DATA THAT HAS NOT BEEN FULLY CONFIRMED BY QUALITY CONTROL PROCEDURES. THIS INFORMATION IS PROVIDED FOR PLANNING PURPOSES ONLY, AND MAY BE REVISED IN THE FUTURE. FAA, CBJ, AND HDR ASSUME NO LIABILITY FOR THE USE OF THIS DATA.</p>	<p>PURPOSE: PROVIDE INCREASED SAFETY AND OPERATIONAL EFFICIENCY AT JUNEAU INTERNATIONAL AIRPORT</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 65E, Sec. 36 T. 40S, R. 66E, Sec. 31, 32 T. 41S, R. 66E, Sec. 1 COPPER RIVER MERIDIAN</p>	<p>WILDLIFE HAZRD REDUCTION REGRADING CROSS SECTION</p> <p>NOT TO SCALE</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>WEST-END WETLANDS REGRADING PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 36 of 51</p>
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<p>PLAN VIEW</p> <p>SCALE: 1" = 700'</p> <p>APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1875 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>FLOAT PLANE POND DREDGE PERMIT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 37 of 51</p>
<p>PURPOSE: ELIMINATE FOOD SOURCE FOR BIRDS AT THE BOTTOM AND SIDES OF THE FLOAT PLANE POND & TO PROVIDE FILL MATERIAL FOR OTHER JUNEAU AIRPORT PROJECTS</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S. R. 65E. Sec. 3B T. 40S. R. 66E. Sec. 31 COPPER RIVER MERIDIAN</p>	<p>SOURCE DATA PROVIDED BY CBI, AND SWCA, INC.</p>



(A) **FLOAT PLANE POND**
TYPICAL CROSS SECTION VIEW
NOT TO SCALE

PURPOSE: ELIMINATE FOOD SOURCE FOR BIRDS AT THE BOTTOM AND SIDES OF THE FLOAT PLANE POND & TO PROVIDE FILL MATERIAL FOR OTHER JUNEAU AIRPORT PROJECTS

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 65E, Sec. 36
T. 40S, R. 66E, Sec. 31
COPPER RIVER MERIDIAN

TYPICAL SECTION VIEW

NOT TO SCALE

APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

FLOAT PLANE POND

POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 38 of 51

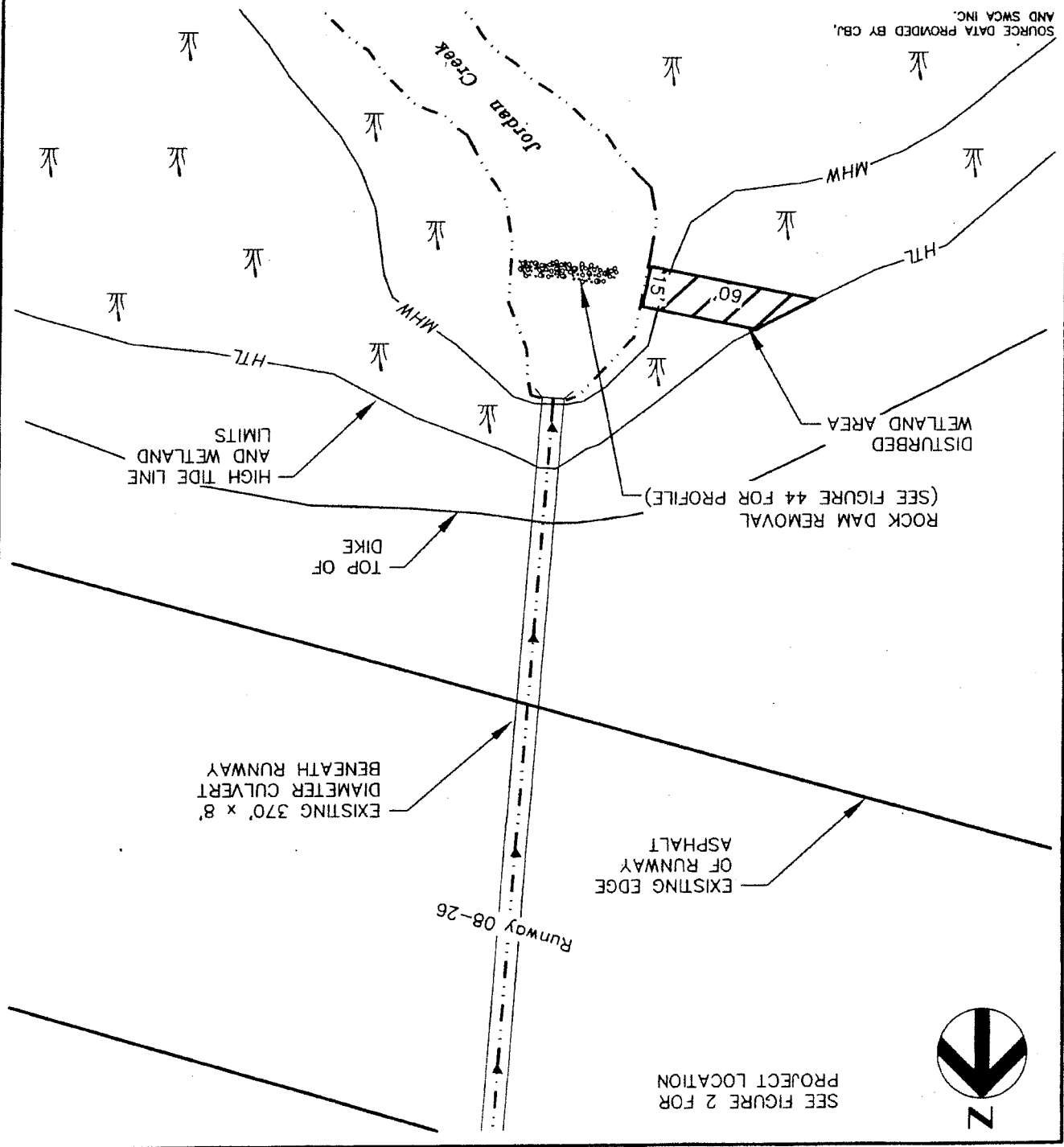
SOURCE DATA PROVIDED BY CBJ,
AND SWCA INC.

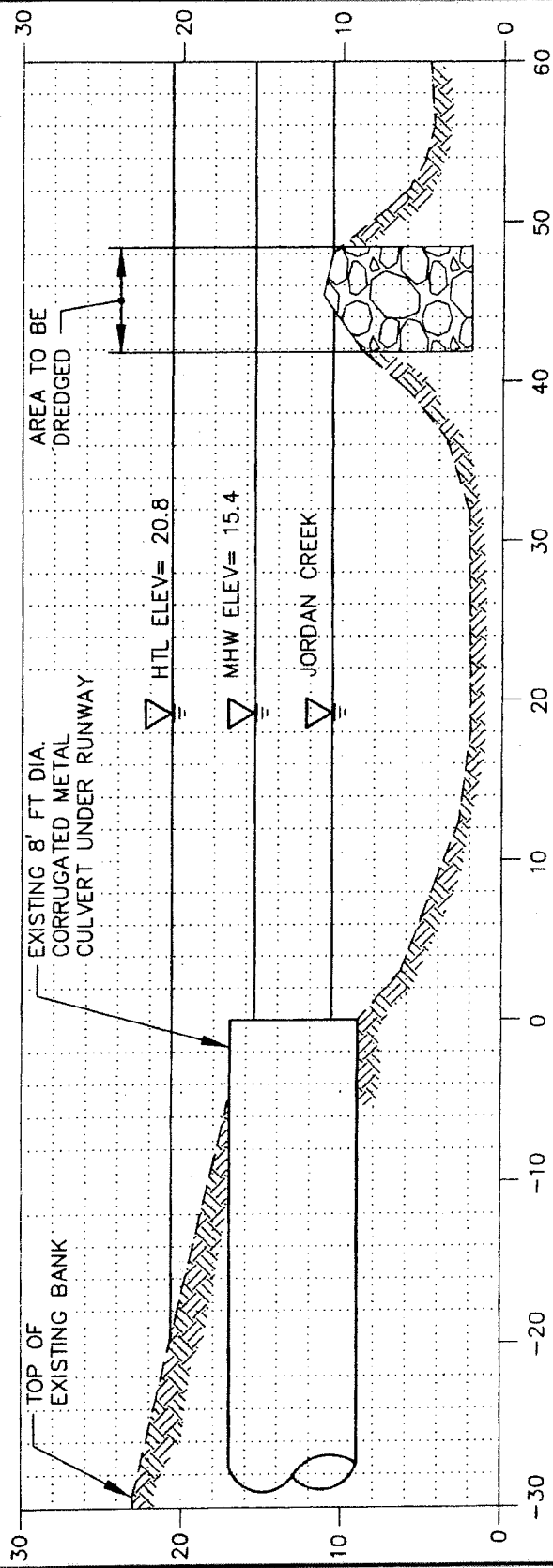
Z:\200868 Carlson Dorr, Inc\12893 JIA Permitting\CAD COE Permits\JIA Jordan Ck Rock Dam Removal\JIA Jordan Ck Rock Dam Removal_Figs 43-44.dwg

LOCATION: T. 40S, R. 66E, Sec. 31
COPPER RIVER MERIDIAN
DATUM: MEAN LOW LOW WATER (MLLW)
PURPOSE: ELIMINATE A SMALL POND NEAR
RUNWAY WHERE FISH POOL AND
BIRDS CONGREGATE

JORDAN CREEK
CULVERT AND ROCK DAM
PLAN VIEW
SCALE: 1" = 50'
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

REMOVAL OF ROCK DAM
AT MOUTH OF JORDAN CREEK
PROJECT
POA-1981-320-M22, Gastineau Channel
JunEAU International Airport
Airport Improvements
July 15, 2008
Sheet 39 of 51

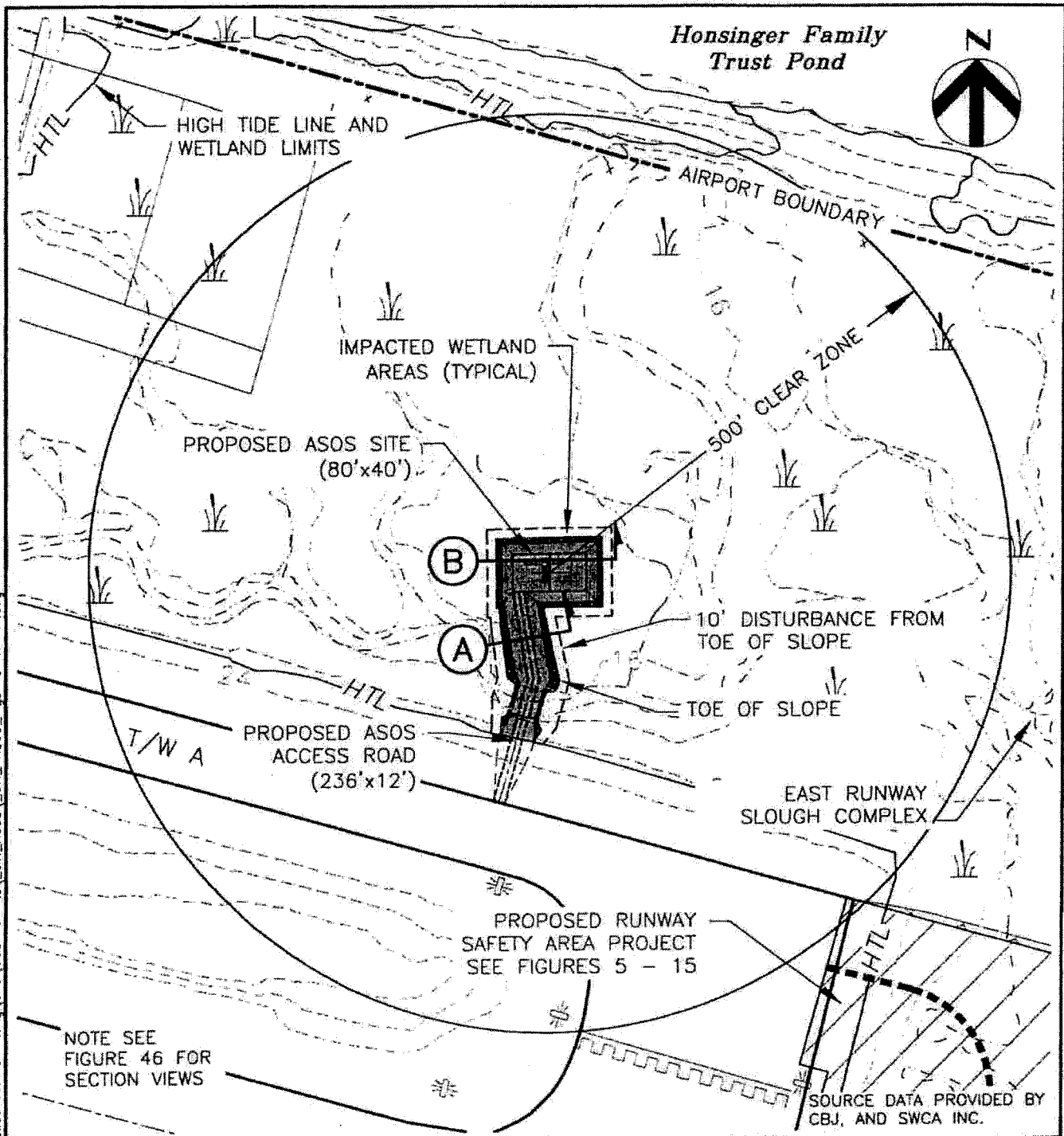




ROCK DAM REMOVAL PROFILE

<p>PURPOSE: ELIMINATE A SMALL POND NEAR RUNWAY WHERE FISH POOL AND BIRDS CONGREGATE</p> <p>DATUM: MEAN LOW LOW WATER (MLLW)</p> <p>LOCATION: T. 40S, R. 66E, Sec. 31 COPPER RIVER MERIDIAN</p>	<p>JORDAN CREEK CULVERT AND ROCK DAM PROFILE VIEW</p> <p>NOT TO SCALE APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801</p>	<p>REMOVAL OF ROCK DAM AT MOUTH OF JORDAN CREEK PROJECT</p> <p>POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 40 of 51</p>
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SOURCE DATA PROVIDED BY CBI,
AND SWCA INC.



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PURPOSE: TO ALLOW DEVELOPMENT IN THE NORTHEAST DEVELOPMENT AREA

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 66E, Sec. 32
COPPER RIVER MERIDIAN

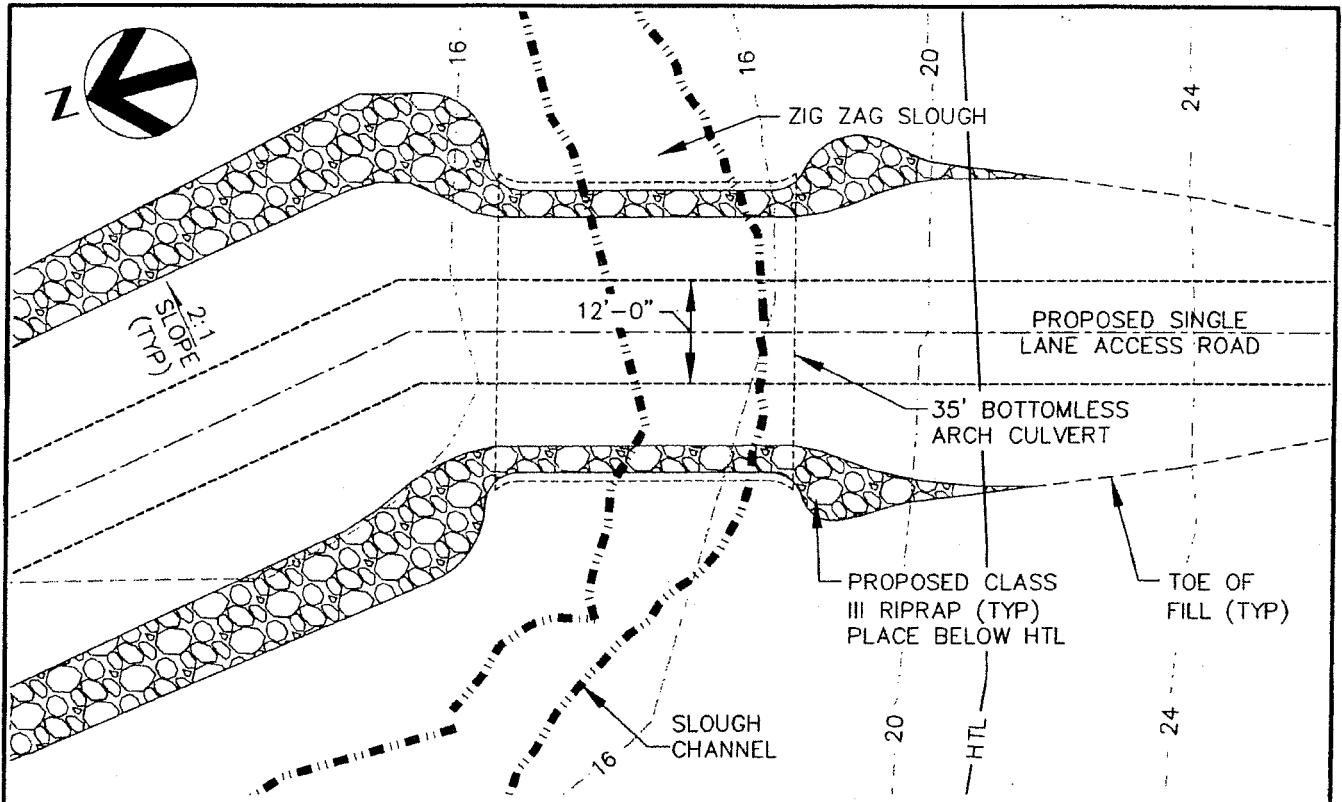
PLAN VIEW

SCALE: 1" = 200'

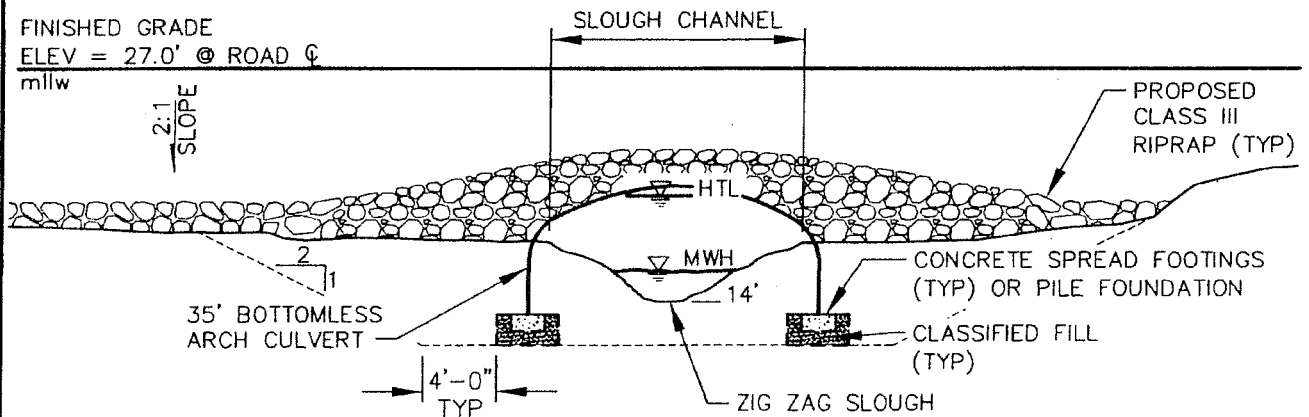
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

AUTOMATED SURFACE OBSERVATION SYSTEM RELOCATION PROJECT

**POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 41 of 51**



BOTTOMLESS ARCH CULVERT CROSSING PLAN VIEW



BOTTOMLESS ARCH CULVERT CROSSING END SECTION

SOURCE DATA PROVIDED BY CBJ, AND SWCA INC.

PURPOSE: TO ALLOW DEVELOPMENT IN THE NORTHEAST DEVELOPMENT AREA

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40S, R. 66E, Sec. 32
COPPER RIVER MERIDIAN

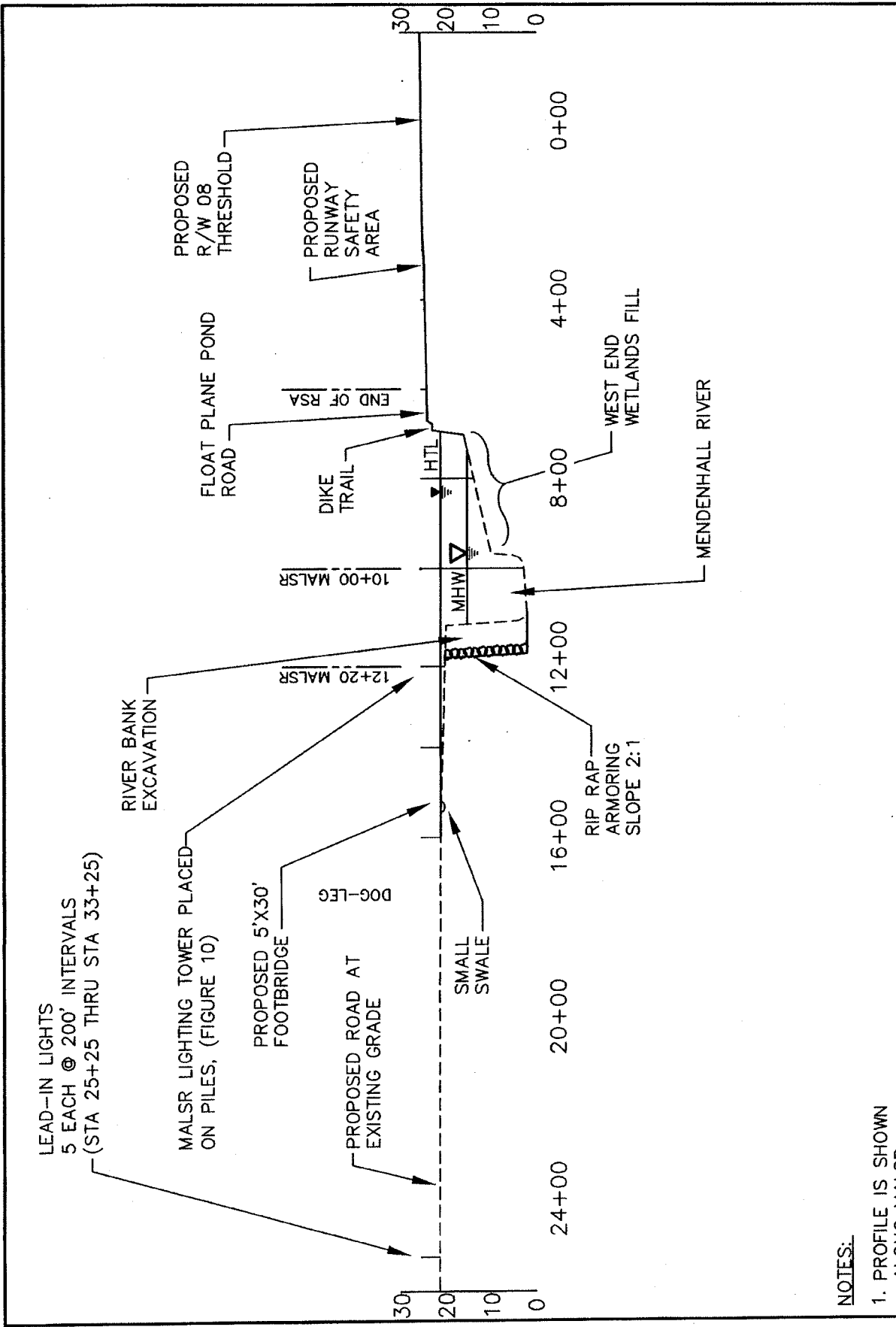
BOTTOMLESS ARCH CULVERT CROSSING

NOT TO SCALE
APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA
99801

AUTOMATED SURFACE OBSERVATION SYSTEM RELOCATION PROJECT

**POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
Sheet 43 of 51**

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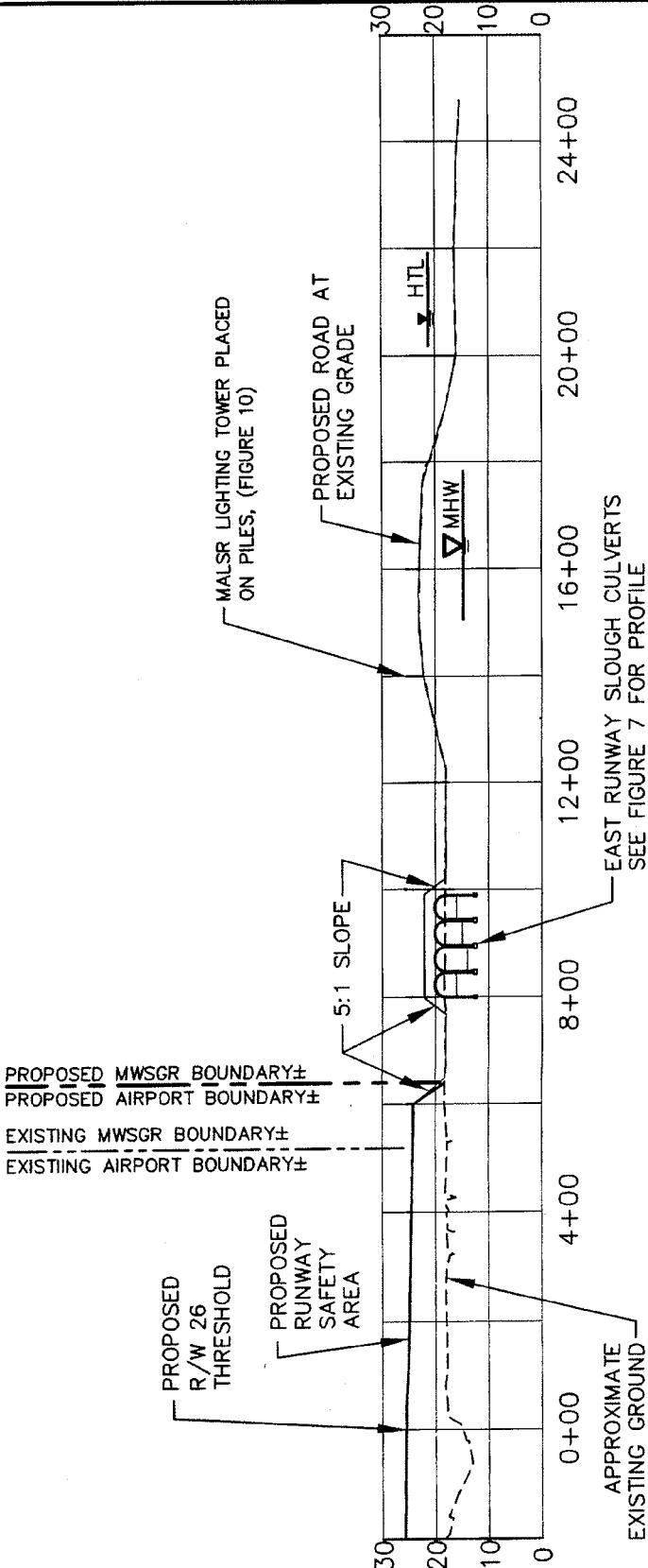
NOTES:

1. PROFILE IS SHOWN ALONG MALSRR CENTERLINE.
2. STA.# ARE FOR VISUAL REFERENCE ONLY.
3. MHW = 15.4'
HTL = 20.8'

PURPOSE: IMPROVE AIRCRAFT APPROACH WITH RUNWAY & IMPROVE TRANSITION TO VISUAL REFERENCE FOR LANDING AT JNU
 DATUM: MEAN LOW LOW WATER (MLLW)
 LOCATION: T. 40 S. R. 66 E. Sec. 32
 T. 41 S. R. 66 E. Sec. 1
 COPPER RIVER MERIDIAN

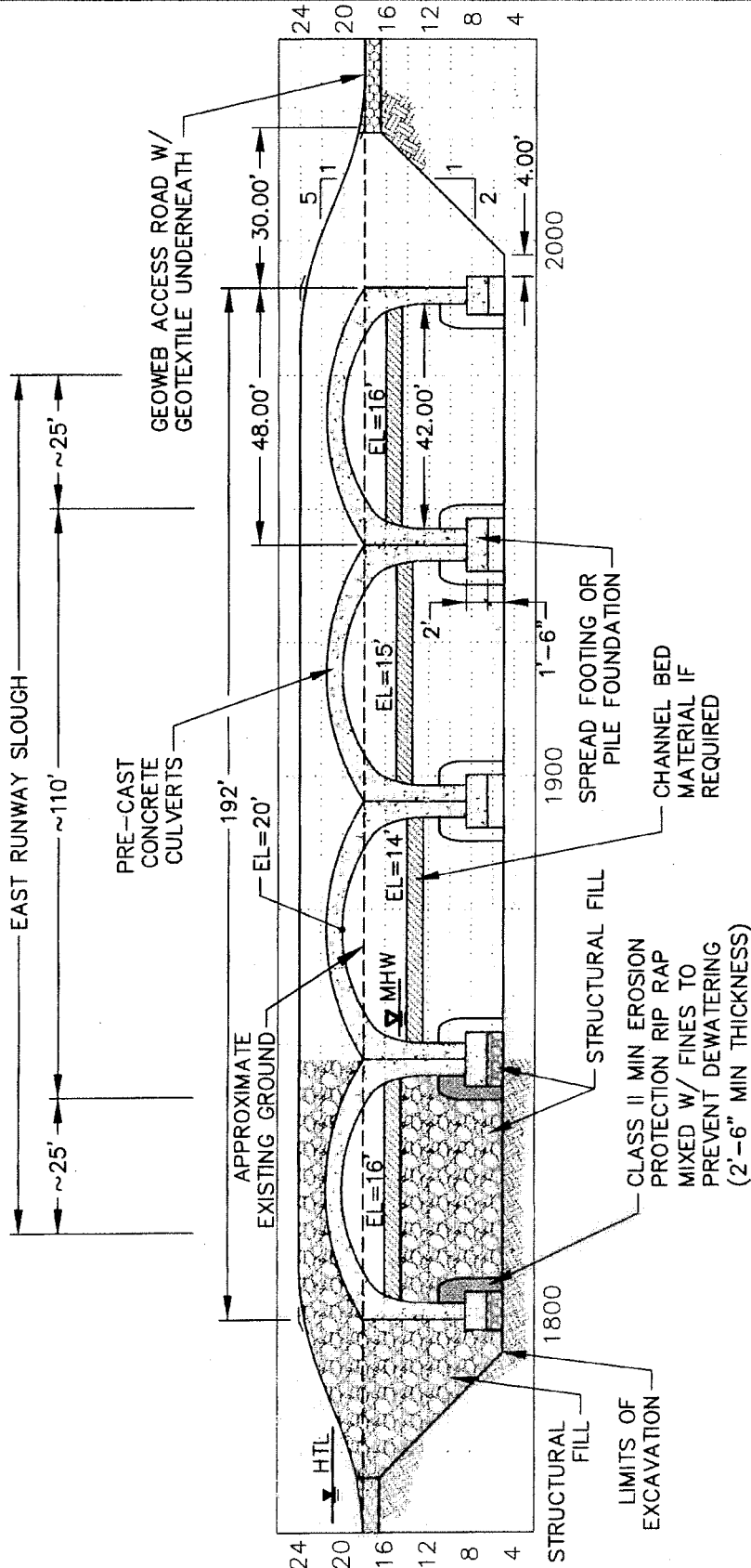
RNWX 08 ACCESS RD/ MALSRR PROFILE
 NOT TO SCALE
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA 99801

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM w/RUNWAY INDICATOR LIGHTS (MALSRR)
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 46 of 51



NOTES:
 STA# ARE FOR VISUAL
 REFERENCE ONLY

PURPOSE: IMPROVE AIRCRAFT APPROACH WITH RUNWAY & IMPROVE TRANSITION TO VISUAL REFERENCE FOR LANDING AT JNU DATUM: MEAN LOW LOW WATER (MLLW) LOCATION: T. 40 S., R. 66 E., Sec. 32 T. 41 S., R. 66 E., Sec. 1 COPPER RIVER MERIDIAN	RNWY 26 ACCESS RD / MALSR PROFILE NOT TO SCALE APPLICATION BY: JUNEAU INTERNATIONAL AIRPORT 1873 SHELL SIMMONS DRIVE SUITE 200 JUNEAU, ALASKA 99801	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM w/ RUNWAY INDICATOR LIGHTS (MALSR) POA-1981-320-M22, Gastineau Channel Juneau International Airport Airport Improvements July 15, 2008 Sheet 47 of 51
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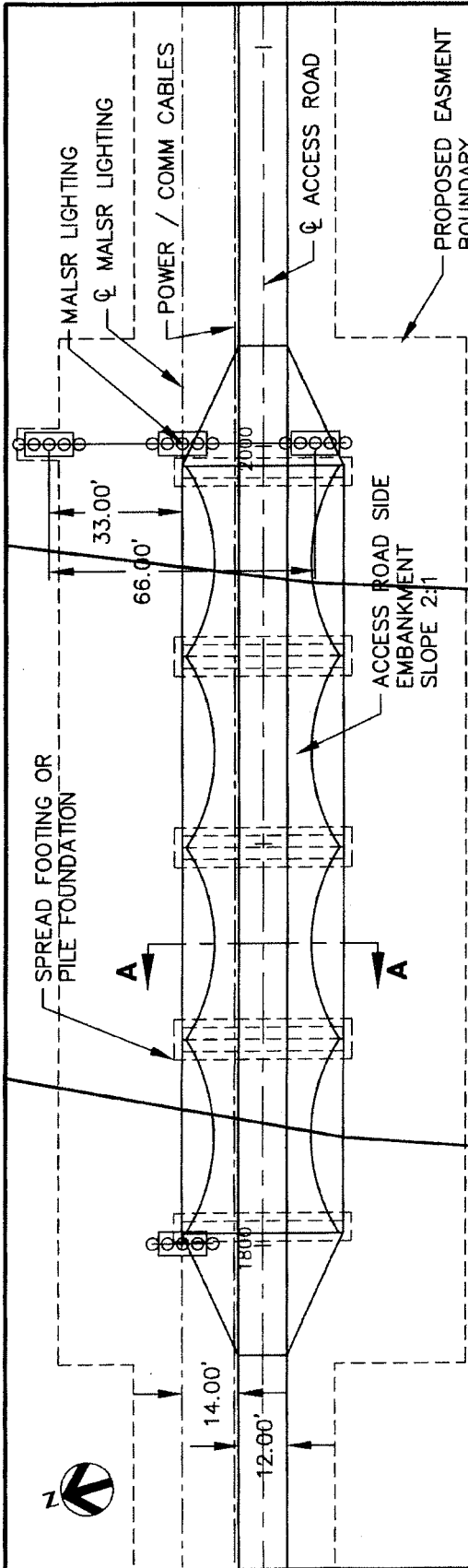
ACCESS ROAD / CULVERTS PROFILE VIEW

NOT TO SCALE

PURPOSE: IMPROVE AIRCRAFT APPROACH WITH RUNWAY & IMPROVE TRANSITION TO VISUAL REFERENCE FOR LANDING AT JNU
DATUM: MEAN LOW LOW WATER (MLLW)
LOCATION: T. 40 S, R. 66 E, Sec. 32
 T. 41 S, R. 66 E, Sec. 1
 COPPER RIVER MERIDIAN

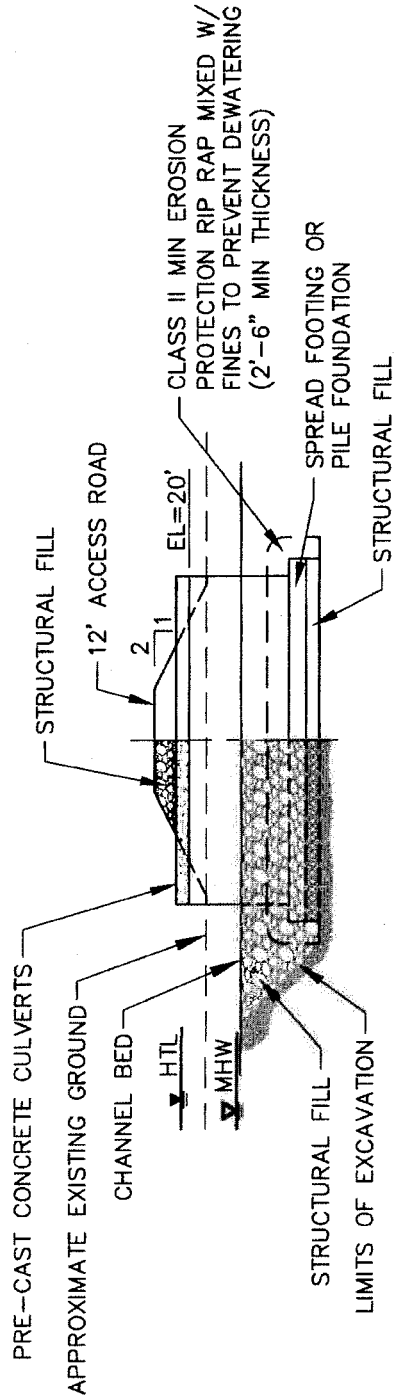
ACCESS ROAD / MALS R PROFILE
 NOT TO SCALE
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA 99801

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM w/RUNWAY INDICATOR LIGHTS (MALS R)
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 48 of 51



ACCESS ROAD / CULVERTS PLAN VIEW

NOT TO SCALE



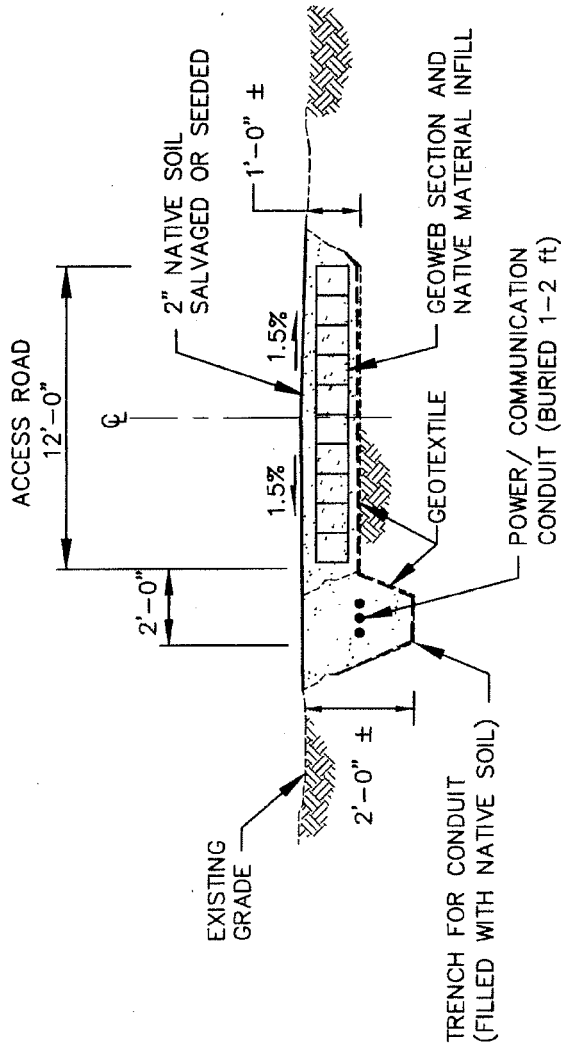
A-A CULVERTS SECTION

NOT TO SCALE

PURPOSE: IMPROVE AIRCRAFT APPROACH WITH RUNWAY & IMPROVE TRANSITION TO VISUAL REFERENCE FOR LANDING AT JNU
 DATUM: MEAN LOW LOW WATER (MLLW)
 LOCATION: T. 40 S. R. 66 E. Sec. 32
 T. 41 S. R. 66 E. Sec. 1
 COPPER RIVER MERIDIAN

EAST RUNWAY SLOUGH CULVERTS - PLAN VIEW
 SCALE: 1" = 300'
 APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA 99801

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM w/RUNWAY INDICATOR LIGHTS (MALSRS)
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 49 of 51



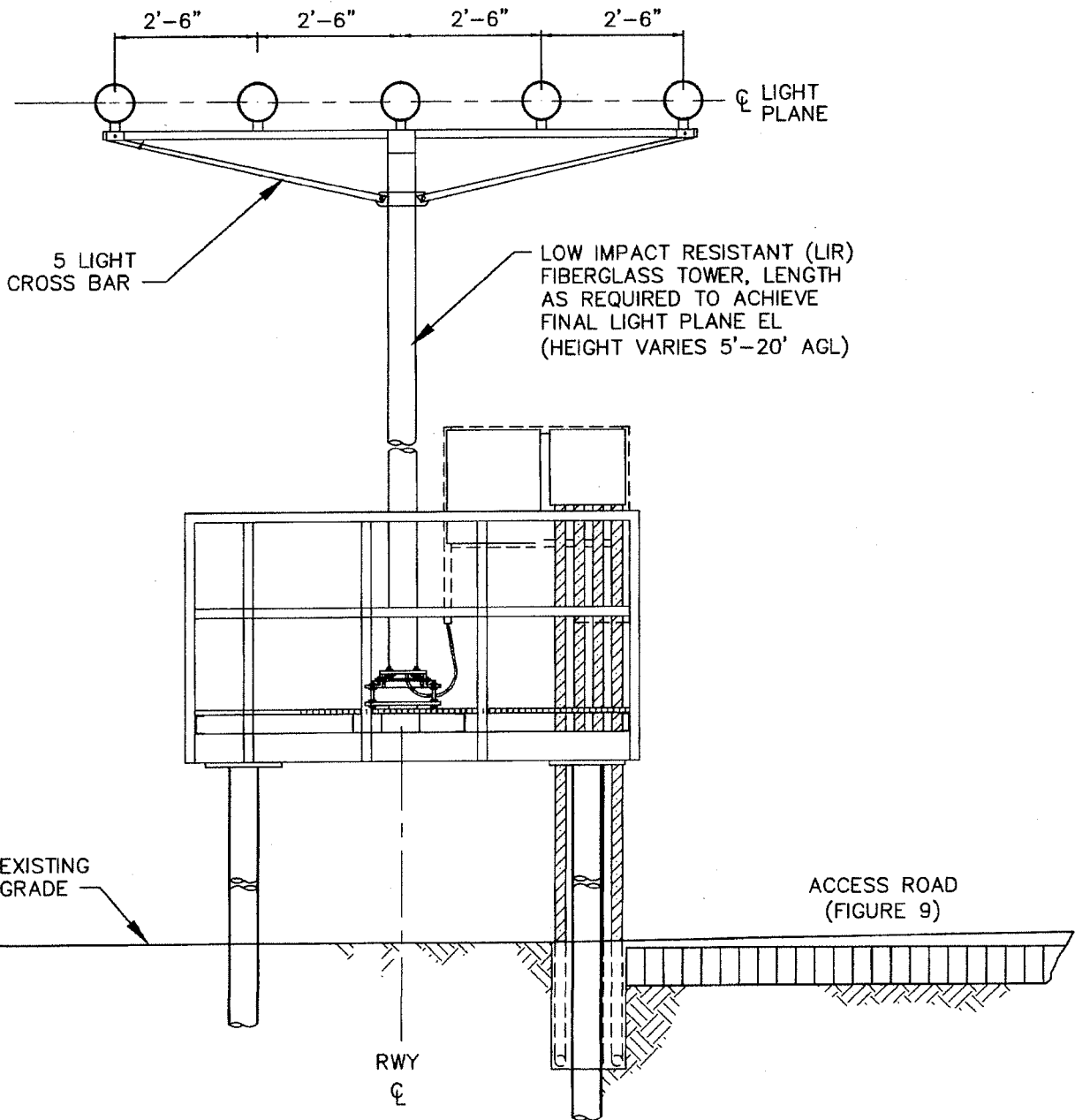
(A) TYPICAL ACCESS ROAD WITH CONDUIT TRENCH

NOT TO SCALE

PURPOSE: IMPROVE AIRCRAFT APPROACH WITH RUNWAY & IMPROVE TRANSITION TO VISUAL REFERENCE FOR LANDING AT JNU
DATUM: MEAN LOW LOW WATER (MLLW)
LOCATION: T. 40 S. R. 66 E. Sec. 32
 T. 41 S. R. 66 E. Sec. 1
 COPPER RIVER MERIDIAN

ACCESS ROAD WITH CONDUIT TRENCH TYPICAL SECTION
 NOT TO SCALE
APPLICATION BY:
 JUNEAU INTERNATIONAL AIRPORT
 1873 SHELL SIMMONS DRIVE
 SUITE 200
 JUNEAU, ALASKA 99801

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM w/RUNWAY INDICATOR LIGHTS (MALSRI)
 POA-1981-320-M22, Gastineau Channel
 Juneau International Airport
 Airport Improvements
 July 15, 2008
 Sheet 50 of 51



(B) TYPICAL MALSR LIGHT TOWER ON PILES

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PURPOSE: IMPROVE AIRCRAFT APPROACH WITH RUNWAY & IMPROVE TRANSITION TO VISUAL REFERENCE FOR LANDING AT JNU

DATUM: MEAN LOW LOW WATER (MLLW)

LOCATION: T. 40 S, R. 66 E, Sec. 32
T. 41 S, R. 66 E, Sec. 1
COPPER RIVER MERIDIAN

**MALSR LIGHT TOWER
PLAN & SECTION VIEW**

NOT TO SCALE

APPLICATION BY:
JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DRIVE
SUITE 200
JUNEAU, ALASKA 99801

**MEDIUM INTENSITY APPROACH
LIGHTING SYSTEM w/RUNWAY
INDICATOR LIGHTS (MALSR)**

**POA-1981-320-M22, Gastineau Channel
Juneau International Airport
Airport Improvements
July 15, 2008
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