EEK001 (326553)
Eek Barge Landing Design
Project Design Plan Agreement

1. PDT MEMBERS SIGNATURES

The undersigned agree to follow the provisions of this design. All Team Members understand exactly what is necessary to complete their work tasking to meet the objectives of this project to fulfill this mission. Changes to scope, schedules, costs, or strategy included in this plan must be coordinated and approved. This plan focuses on the detailed related to the project specifics and falls under the Denali Commission Program Management Plan.

4/20/10		4-21-10	
Project Manager	Date	Real Estate Division	Date
4/21/10		21 Apr 10	
Project Formulation	Date	Cost Engineering	
4/20/10		20 Apr 10	
Hydraulics & Hydrology	Date	Environmental	Date
4/3/10		4/27/10	
Survey	Date	Denali Commission	Date
4/27/10			
Soils & Geology	Date	Denali Commission	Date

2. SCOPE OF WORK

The project is to design for construction of a barge landing at Eek, Alaska. The Project Manager (PM) received authorization from the Denali Commission to move directly to design ready for construction. The design will include plans, specifications, and estimates as well as all approved local, state, and federal permits and applicable construction bid documents for a barge landing site at Eek. Design will include if necessary fuel header relocation recommendations. The design will not include detailed hydrologic and erosion studies, soil testing and boring typical for projects designed to be constructed without further work.

The final product will include a record of public involvement that includes a community resolution providing their response to the proposed project. The final product will include final construction cost estimates required real estate authorizations and survey and construction cost estimates and contracts.

3. DELIVERABLES

Hydrology and Hydraulics (H&H) Deliverable: The following tasks are related to the hydraulic studies:

Identify Existing Conditions and Preliminary Design Development

Initial Site Visit: This task will include evaluating the existing conditions. City officials and other local observers will be interviewed to gain information about the existing conditions at the proposed barge landing site. The H&H team member will identify potential design constraints; such as deep- and shallow-water limitations, uplands access, geotechnical, environmental, real estate, and construction considerations.

Hydraulics: A description of river currents and tidal influences will be developed. Existing information will be used such as National Oceanic and Atmospheric Administration (NOAA) charts and local observations.

- Currents velocities will be estimated for the proposed barge landing site and near-shore areas along the adjacent shoreline using local observations, and other available information
- Identify Water Level Variations

Bathymetric and/or Topographic Survey: Coordinate the scope of bathymetric and topographic surveys with Survey, Geotechnical, Real estate and Environmental team members.

Barge Landing Design: The design will be developed based on previous conceptual design work performed by the Architect-Engineer (AE) for the Denali Commission barge landing study. It is assumed that the site east of the creek mouth identified on Figure E23 of the AE's Barge Landing Study Report will be the site for the proposed project. One layout and design for the barge landing will be developed. The detailed design will factor in conditions and constraints identified in the AE's concept plan. It is assumed that full coverage detailed hydrographic and topographic survey data will be available for layout, design, and quantity takeoff purposes.

Uplands and Staging Area Design: Uplands and Staging Area design will including excavation and fill requirements for access and storage, and other relevant features based on the AE's concept layout.

Compute Quantities: Compute quantities for the barge landing using AutoCAD and Land Desktop Companion 2009 software or similar in accordance with ER 1110-2-1150. An independent quantity check will be performed.

Prepare Drawings: A complete set of drawings for bidding purposes will be prepared using AutoCAD and Land Desktop Companion 2009 software.

Prepare Specifications: H&H will prepare technical specifications for the various features of work. Specs Section will prepare the Division 1 sections, Contracting will prepare the front end clauses.

Technical Review: H&H will prepare the technical review package, facilitate the review, address and resolve review comments, and finalize the plans and specifications package to be ready for advertisement. An in-house ITR/BCOE review is assumed.

Geotechnical Engineering and Exploration:

- Exploration of the proposed barge landing site with either borings or test pits, if needed.
- Soil sample testing.
- Production of final exploration logs and incorporation of results and geotechnical engineering recommendations into the final report.

Survey Deliverables: The Government will select a contractor to perform the necessary monument installations, Tidal Datum Determination (if required), Hydrographic and Topographic mapping within the project limits. Tasks include the following:

- Prepare scope for AE survey contract of the selected site or sites. Administer the technical provisions of the contract and the review deliverable products.
- Complete the survey contract and accept/deny survey results.
- Participate in team meetings and reviews.

Specifications Section: Required division one specifications will be defined and provided in the final design.

Technical Integration: All Engineering Services products will be integrated and provided in the final design documents and electronic deliverables.

Real Estate Deliverable: Required construction rights of way, confirmation of required land ownership and sponsors construction right of way approval.

Environmental Deliverable: Preparation of an Environmental Assessment (EA) is recommended to meet National Environmental Policy Act (NEPA) obligations. The environmental regulatory coordination and permit requirements for a barge landing and staging area would include:

- Coordination with and probable consistency review by the Alaska Coastal Management Program (ACMP).
- National Historic Preservation Act (NHPA) Section 106 evaluation of historical/cultural resources in the project area, and coordination with the State Historical Preservation Officer (SHPO).
- Coordination with National Marine Fisheries Service on Essential Fish Habitat issues.
- Coordination with U.S. Fish & Wildlife Service on the Endangered Species Act, focusing on the nearby Critical Habitat Area for molting spectacled eiders. The need for formal consultation or a Biological Assessment is not expected.

- Clean Water Act (CWA) coordination with the U.S. Army Corps of Engineers. CWA Section 404 requirements may be covered by one or more Nationwide Permits (e.g., NWP #36, NWP #18) depending on the scale of construction; a Pre-Construction Notification (PCN) to the Corps may be required. Boat ramps constructed under NWP #36 ("Boat Ramps") are limited to a 20-foot width and 50 cubic yard total discharge unless these limits are waived in writing by the District Engineer. Additional permits may be required if dredging navigable waters is necessary for access to boat ramp.
- Any brush-clearing should be planned with migratory bird nesting-windows in mind, to avoid violations of the Migratory Bird Treaty Act.

Cost Engineering Deliverable: Preparation of necessary cost estimates.

Project Management Deliverable: All required reports schedules and budgets necessary to complete the project.

Customer expectations are for a final design which will include:

- Final design and construction plans and specifications
- Final construction cost estimates
- Approved local, state and federal permits
- Complete NEPA and other environmental analyses
- Necessary real estate instruments and authorizations
- Construction bid documents

4. SCHEDULE

Project Start	2 February 2010 (A)
Site Visit	30 April 2010
Trip Report Finalized	20 May 2010
50% Draft Design for PDT Review	24 September 2010
50% Design for Chiefs Review	6 October 2010
Meet with Denali Commission to Discuss Design and NEPA	26 October 2010
Final Design ITR Complete	3 December 2010
BCOE Review Complete	7 April 2011
BCOE Certification	21 April 2011
Design Complete Ready for Release	22 April 2011
Design Package to Customer	3 May 2011
Project Closeout	22 June 2011

All scheduling information will be kept current on a monthly basis by the PM via P2 updates. For specific project scheduling information, refer to the individual P2 project states reports. A copy of the schedule is kept in MS Project and has been attached as a reference below.

5. BUDGET

Funds in the amount of $300,000 have been appropriated by the Denali Commission and sent to the Alaska District, U.S. Army Corps of Engineers in the Denali Commission Agreement Titled Eek Barge Landing Design, Award RA-516.

Description	Estimated Cost
Hydraulics & Hydrology	$84,000.00
Real Estate	$5,000.00
Environmental	$24,000.00
Cost Engineering	$20,000.00
Soils and Geology	$40,000.00
Planner	$25,000.00
Project Manager	$15,000.00
Survey	$41,000.00
EN-ES-SP	$3,000.00
EN-ES-TI	$3,000.00
CO-SB	$10,000.00
Travel and Other SVS	$30,000.00
Project Total	**$300,000.00**

6. PDT MEMBERS

To provide for consistent and effective communication between the Corps, Denali Commission and the City of Eek, points of contact for each party are:

Name	Title	Contact
Nick A Carter	Tribal Administrator, Community POC	Phn: 907-536-5128 Email: Nick_A._Carter@yahoo.com
Adison Smith	Denali Commission Transportation Project Manager	Phn: 907-271-1640 Email: asmith@denali.gov
Melanie Harrop	Project Manager	Phn: 753-5694 Email: melanie.a.harrop@usace.army.mil
Keith Gordon	Planner	Phn: 753-5710 Email: keith.q.gordon@usace.army.mil
Angie Gori	Real Estate	Phn: 753-2845 Email: angeline.m.gori@usace.army.mil
Guy McConnell	Environmental	Phn: 753-2614 Email: guy.r.mcconnell@usace.army.mil
Merlin Peterson	H&H	Phn: 753-2671 Email: merlin.d.peterson@usace.army.mil
Albert Arruda	Cost Estimator	Phn: 753-5679 Email: albert.arruda@usace.army.mil
Gregory Carpenter	Geotechnical Engineer, P.E.	Phn: 753-2684 Email: Gregory.W.Carpenter@usace.army.mil
Jerry Zuspan	Survey	Phn: 753-2660 Email: jerry.h.zuspan@usace.army.mil

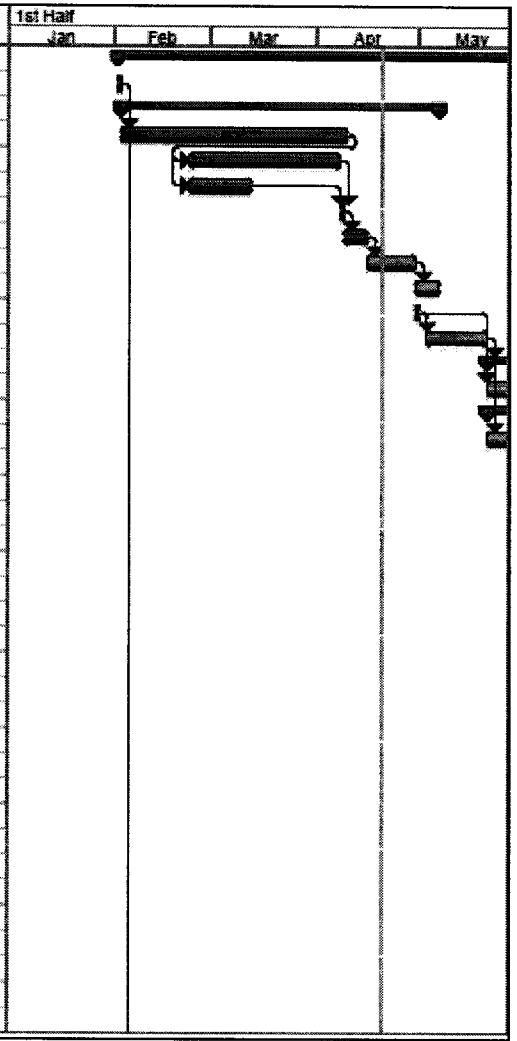
Communication will be by phone, email, and in person meetings as needed over the course of the work period.

7. COMMUNICATION PLAN.

The preparation of an internal and external communication strategy will include defining issues, identifying key stakeholders and constituents, identifying roles and responsibilities, developing key messages, developing public involvement plan, assisting with appropriate government-to-government coordination, and regular evaluations and updates of the plan.

Eek Barge Landing Design Schedule

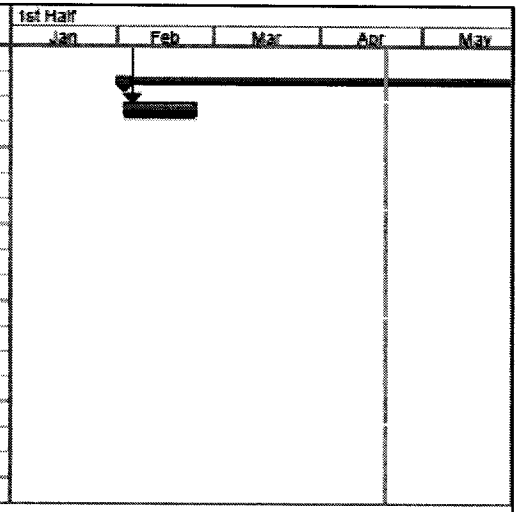
ID		Task Name	Duration	Start	Finish	Predecessors
1		**Eek Barge Landing**	**362 days**	**Tue 2/2/10**	**Wed 6/22/11**	
2	✓	Kickoff Meeting	1 day	Tue 2/2/10	Tue 2/2/10	
3		**Develop PMP**	**67 days**	**Wed 2/3/10**	**Thu 5/6/10**	
4	✓	Draft PMP	48 days	Wed 2/3/10	Fri 4/9/10	2
5	✓	Develop Schedule	32 days	Tue 2/23/10	Wed 4/7/10	4
6	✓	Develop Budget	14 days	Tue 2/23/10	Fri 3/12/10	4
7	✓	PDT Review PMP	1 day	Thu 4/8/10	Thu 4/8/10	5,6
8	✓	Customer Review of PMP	5 days	Fri 4/9/10	Thu 4/15/10	7
9		Finalize PMP	10 days	Fri 4/16/10	Thu 4/29/10	8
10		Approved PMP	5 days	Fri 4/30/10	Thu 5/6/10	9
11		Site Visit	1 day	Fri 4/30/10	Fri 4/30/10	
12		Trip Report	14 days	Mon 5/3/10	Thu 5/20/10	11
13		**Public Involvement**	**90 days**	**Fri 5/21/10**	**Thu 9/23/10**	**12**
14		Community Resolutions	90 days	Fri 5/21/10	Thu 9/23/10	11
15		**Engineering and Design**	**142 days**	**Fri 5/21/10**	**Mon 12/6/10**	
16		Surveys and Mapping	45 days	Fri 5/21/10	Thu 7/22/10	12
17		Geotechnical	35 days	Thu 7/1/10	Wed 8/18/10	
18		Site Development	14 days	Thu 8/19/10	Tue 9/7/10	17,16
19		Hydro & Hydraulics	15 days	Fri 7/23/10	Thu 8/12/10	16
20		Eng & Design Analysis	30 days	Fri 8/13/10	Thu 9/23/10	19
21		Draft Design for PDT Review	5 days	Fri 9/24/10	Thu 9/30/10	20
22		Incorporate Comments	3 days	Fri 10/1/10	Tue 10/5/10	21
23		Section Chief Review	14 days	Wed 10/6/10	Mon 10/25/10	22
24		Meeting with Customer on Design	1 day	Tue 10/26/10	Tue 10/26/10	23
25		Plans&Specs, Incorporate Comments	7 days	Wed 10/27/10	Thu 11/4/10	24
26		Final Design	3 days	Fri 11/5/10	Tue 11/9/10	25
27		Final Design Package for PDT Review	5 days	Wed 11/10/10	Tue 11/16/10	26
28		Review (ITR)	14 days	Wed 11/17/10	Mon 12/6/10	27
29		**Environmental (EA)**	**171 days**	**Fri 7/23/10**	**Fri 3/18/11**	
30		SHPO	30 days	Fri 7/23/10	Thu 9/2/10	16
31		F&W Coordination	30 days	Fri 7/23/10	Thu 9/2/10	16
32		Section 404(b)(1) Analysis	30 days	Fri 7/23/10	Thu 9/2/10	16
33		Record of Decision	30 days	Fri 7/23/10	Thu 9/2/10	16
34		Section 103 Evaluation	30 days	Fri 7/23/10	Thu 9/2/10	16
35		Statement of Findings	30 days	Fri 7/23/10	Thu 9/2/10	16
36		CZM Consistency	60 days	Fri 7/23/10	Thu 10/14/10	16
37		Draft Final	80 days	Fri 7/23/10	Thu 11/11/10	16
38		Pre-NEPA Meeting with Customer	1 day	Fri 11/12/10	Fri 11/12/10	37
39		Public Review	30 days	Fri 1/28/11	Thu 3/10/11	45,38



Project: Eek Draft Schedule 0.45mpp
Date: Tue 4/20/10

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

ID		Task Name	Duration	Start	Finish	Predecessors
40		Sign FONSI	6 days	Fri 3/11/11	Fri 3/18/11	39
41		**Real Estate**	**257 days**	**Wed 2/3/10**	**Thu 1/27/11**	
42	✓	Ownership Identification	15 days	Wed 2/3/10	Tue 2/23/10	2
43		**Obtain Permits for Construction**	**135 days**	**Fri 7/23/10**	**Thu 1/27/11**	
44		From City	135 days	Fri 7/23/10	Thu 1/27/11	16
45		State Tidelands	135 days	Fri 7/23/10	Thu 1/27/11	16
46		**Cost Estimate**	**45 days**	**Fri 10/1/10**	**Thu 12/2/10**	
47		Develop Construction Cost	45 days	Fri 10/1/10	Thu 12/2/10	21
48		**BCOE Review**	**24 days**	**Mon 3/21/11**	**Thu 4/21/11**	
49		Review	14 days	Mon 3/21/11	Thu 4/7/11	27,40
50		Incorporate Comments	7 days	Fri 4/8/11	Mon 4/18/11	49
51		Certificate	3 days	Tue 4/19/11	Thu 4/21/11	50
52		**Project Complete**	**44 days**	**Fri 4/22/11**	**Wed 6/22/11**	
53		Publication/Reproduction	3 days	Fri 4/22/11	Tue 4/26/11	51
54		Copies to Customer and Community	5 days	Wed 4/27/11	Tue 5/3/11	53
55		Physical Closeout	3 days	Wed 5/4/11	Fri 5/6/11	54
56		Transfer of Remaining Funds	30 days	Mon 5/9/11	Fri 6/17/11	55
57		Fiscal Closeout	3 days	Mon 6/20/11	Wed 6/22/11	56



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Split		Summary		External Milestone	
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