This is the presentation for Public Open House 4 being conducted for the Ted Stevens Anchorage International Airport Master Plan Update. It is being delivered at 6:00 PM on Thursday, March 21st at the Coast International Inn in Anchorage, Alaska. The presenter is Evan Pfahler, Project Manager with Reynolds Smith, and Hills, Inc.

• The presentation will last approximately 20-30 minutes.

• The presentation will be followed by an open question and answer session.

• The audience will be asked to hold questions until the question and answer session.

Prior to the presentation, an Open House was held from 5:30 PM to 6:00 PM where attendees could view Master Plan Update information and speak with representatives of the Master Plan Update Team.
The Master Plan Update Team wants to ensure the audience is reminded what an airport master plan is. United States public commercial service airports are encouraged to prepare airport master plans by the Federal Aviation Administration (FAA). The FAA provides grant funding for airport master plans through the Airport Improvement Program (AIP) and publishes an advisory circular [150/5070-6B, *Airport Master Plans*] that provides guidance on all elements of the master plan process. The FAA defines an Airport Master Plan as “...a comprehensive study of an airport [that] usually describes the short-, medium-, and long term development plans to meet future aviation demand.” It is important to note that a master plan is intended to prepare an airport to meet future aviation demand which is estimated through a forecast. This presentation includes the results of the forecast prepared for Anchorage International Airport.
ANC Master Plan Update // Public Open House 4
This Meeting’s Purpose

1. Share facility requirements
2. Review development constraints
3. Introduce draft evaluation criteria

The purpose of this presentation is to:

1. Share the findings of the facility requirements analysis conducted for the Ted Stevens Anchorage International Airport Master Plan Update
2. Review potential constraints to future development of the Airport
3. Introduce draft evaluation criteria that will be used to compare the merits of the various alternatives
The Master Plan Update Project Manager (and presenter) is Evan Pfahler. The Master Plan Update Public Involvement Lead is Katherine Wood of HDR Alaska, Inc.

The Master Plan Update Team wants the audience to become familiar with Evan and Katherine because they will be the two individuals most commonly interacted with throughout the project at open houses, stakeholder meetings, and other project events. Evan and Katherine are supported by a team of airport planning and public involvement professionals who are working in support of a successful project outcome.
This presentation covers five agenda items:

1. First, an update the Master Plan Update team’s progress to date will be presented
2. Second, the findings of the facility requirements analysis will be shared
3. Third, a review of development constraints will be presented
4. Fourth, draft evaluation criteria will be introduced
5. Finally, next steps in the Master Plan Update process will be presented
ANC Master Plan Update // Public Open House 4
This Meeting’s Agenda

1. Update project progress
2. Share facility requirements
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5. Next steps

The first part of this presentation is to provide an update on project progress.
This flowchart generally outlines the Master Plan Update process and its primary tasks. The tasks with green check marks have been completed for the Ted Stevens Anchorage International Airport Master Plan Update. The red “A” indicates the task that is currently underway.

The results of the facility requirements analysis are included in this presentation.

As a reminder, the FAA has already approved the updated forecast of aviation activity for Anchorage International Airport. The forecast was presented at Open House 2 in September 2012 and is available at [http://dot.alaska.gov/aias/news.shtml#forecasts](http://dot.alaska.gov/aias/news.shtml#forecasts).

The Master Plan Update team is currently working on developing alternatives.

The Master Plan Update will be adopted by the Airport upon its conclusion at the end of 2013. It is important to recognize that the Master Plan Update process is the first step in the planning process and not the last step. Additional environmental analysis and permitting may be required prior to implementation of actions recommended in the Master Plan Update.
This is a schedule that illustrates when work is anticipated to commence on the primary Master Plan Update tasks. The Facility Requirements analysis is now complete and early development of alternatives is underway. The next Open House will include a presentation of initial alternatives. The public will have an opportunity to comment on alternatives prior to the Airport selecting a draft preferred alternative (to be presented in September 2013). Prior to the conclusion of the Master Plan Update, the public will have an opportunity to comment on the draft preferred alternative.
The Master Plan Update team is very busy working on continued public and stakeholder involvement and technical analysis. Ongoing efforts focus on three primary elements.

First, we have continued our public involvement program by working with our valued stakeholders. Stakeholders include groups and individuals interested in the Airport and the Airport Master Plan Update.

Secondly, we have completed the facility requirements analysis.

Finally, we have begun preparing development alternatives. The early stages of alternatives development consider the future needs of the various functional areas of the Airport such as the airside, terminal, landside, and airport support facilities.
Public involvement is an important component of the Master Plan Update process. The Master Plan Update team is sharing information about the project and gathering feedback.

Four public open house events have been held to date (this presentation was given at Open House 4 on Thursday, March 21, 2013).

The Master Plan Update Working Group is a body of neighborhood, community, recreational, environmental, and business interest groups. The Working Group has met three times in December 2012, January 2013, and March 2013.

A Technical Advisory Committee has also been established representing industry and aviation experts with technical expertise. The Technical Advisory Committee has met twice - in December 2012 and again in March 2013.

The Technical Advisory Committee and the Working Group will meet again in early April. The public is welcome to observe the Technical Advisory Committee and Working Group meetings.

In addition to these events, the Master Plan Update team has conducted approximately 65 stakeholder interviews to date.
ANC Master Plan Update // Public Open House 4
Public Involvement Communication To Date

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565+ individual email addresses on our distribution list
10 E-Newsletters sent
160,000+ postcards mailed
300+ comments received
235+ individual attendees at public events

The Master Plan Update team now has over 500 email addresses on the Master Plan Update email distribution list.

Ten E-newsletters have been emailed to the email distribution list.

About 160,000 postcards (approximately 40,000 for each Open House) have been mailed to residents in the vicinity of Anchorage International Airport.

More than 300 comments have been submitted and we plan to respond to each one.

More than 235 individuals have attended public open house events, Working Group meetings, and Technical Advisory Committee meetings.
ANC Master Plan Update // Public Open House 4
Public Involvement Project Website

Website - www.ancmasterplan.com
✔️ 1,578+ individual visitors
✔️ 5,471+ page views since the website was launched in early October 2012

The Master Plan Update has a website where any interested individual can obtain the most recent information about the project and review project materials. To date, the project website has had more than 1,500 individual visitors and 5,500 page views – an increase of about 2,000 page views in the past month thanks to our first Online Open House.

The Master Plan Update team is committed to sharing project information and listening to public input. Please continue to reach out to the Master Plan Update team if you have questions or comments.
ANC Master Plan Update // Public Open House 4
This Meeting’s Agenda

1. Update project progress
2. Share facility requirements
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The second part of this presentation shares the findings of the facility requirements analysis for the Ted Stevens Anchorage International Airport Master Plan Update.
The facility requirements analysis documents whether existing facilities are capable of accommodating forecast demand. If the existing facilities cannot meet forecast demand, the analysis determines facilities required to meet unmet demand.

The facility requirements analysis does not determine how or where facilities would be provided, only whether additional facilities are necessary within the 20 year master planning horizon to meet unmet demand.
The facility requirements analysis relies on the forecast of aviation demand. Prior to sharing the results of the facility requirements analysis, it is important to review the forecast of aviation demand.

The forecast of aviation demand was prepared as part of the Alaska International Airport System (AIAS) Planning Study and was completed in 2012. Forecasts were prepared for both Anchorage and Fairbanks International Airports. The results of the forecast will support Master Plan Updates and Part 150 Noise studies at both airports. Thus, all major planning efforts at both airports are relying on a consistent set of forecast data.

The Federal Aviation Administration as well as the Airline Airport Affairs Committee were involved in the forecast study and both have endorsed use of the forecast for these planning efforts.

Per FAA guidelines, the forecast of aviation demand looks out 20 years.

Finally, the forecast of aviation demand includes an outlook for enplaned passengers (people boarding airplanes), cargo tonnage (carried on airplanes), and aircraft operations (landings and take-offs).
Planning Activity Levels represent projected future levels of activity used to assess facility requirements. The use of Planning Activity Levels permits planners to assess future facility needs relative to activity levels and not based on a timeline or a specific year.

Once the Master Plan Update is complete, the Airport should monitor activity levels and make decisions about implementing improvements recommended in the Master Plan Update as warranted by growth in activity. This means that future airport improvements will only be made as necessary. Future improvements recommended in the Master Plan Update, therefore, may be required sooner than forecast or later than forecast.

The facility requirements analysis uses four Planning Activity Levels representing incremental growth in enplanements (people boarding planes), cargo tonnage (tons of cargo onboard airplanes) and aircraft operations (landings and take-offs). The baseline represents current activity levels.
Passenger enplanements represent people boarding airplanes at Anchorage International Airport.

Passenger enplanements are forecast to grow from about 2.48 million per year to more than 3.00 million per year over the planning horizon.

The Airport’s busiest year for passenger enplanements occurred in 2008 when about 2.59 million passengers were enplaned.
Cargo tonnage represents tons of cargo onboard airplanes at Anchorage International Airport.

Cargo tonnage is forecast to grow from about 5.10 million tons per year to more than 8.84 million tons per year over the planning horizon.

The Airport’s busiest year for cargo tonnage occurred in 2006 when about 5.4 million tons were carried.
Aircraft operations represents aircraft takeoffs and landings at Anchorage International Airport.

Aircraft operations are forecast to grow from about 220,000 per year to more than 280,000 per year over the planning horizon.

The Airport’s busiest year for operations occurred in 2000 when nearly 250,000 landings and take-offs occurred.

Note that the historic operations peak occurred in 2000 while the historic cargo peak occurred in 2006 and the historic passenger enplanements peak occurred in 2008. This fact is explained because airlines today are operating much more efficiently than they did 10 to 15 years ago. Each plane carries more passengers and more cargo on average than in past decades.
Facility requirements will be presented by functional area.

**AIRSIDE** facility requirements are determined by assessing FAA airport design standards and aircraft operations levels.

**TERMINAL** facility requirements are determined by assessing passenger aircraft operations and passenger enplanements.

**LANDSIDE** facility requirements are determined by assessing passenger enplanements.

**AIRPORT SUPPORT** facility requirements are determined by assessing aircraft operations levels and cargo tonnage.

**LAND USE** requirements are determined by assessing aircraft operations, passenger enplanements, and cargo tonnage.
The airside facilities include the runways, taxiways, aprons, and associated safety areas.

Today through PAL 4, upgrades to airfield facilities will be required to meet new FAA airport design standards as published in Advisory Circular 150/5300-13A, Airport Design. These upgrades will also be necessitated by a growing number of large aircraft utilizing the Airport in future years.

As airside improvements are made, the Airport must address the need to clear and store snow during the winter months. The existing snow storage areas are nearing capacity.

Growth in aircraft operations will result in higher delays at and above PAL 3. Increasing delay will need to be addressed at or above PAL 3.
The passenger terminal facilities consist of the North Terminal and South Terminal.

Today, the South Terminal’s outbound baggage system must be addressed to accommodate peak demands during summer tourist season.

The Airport has a sufficient number of gates and large enough terminal facilities to meet demand through PAL 4. However, there is a substantial disparity in the quality of terminal facilities between the South Terminal and the North Terminal. As passenger enplanements continue to grow, this disparity will need to be addressed such that a consistent, high-quality customer experience is provided for airline passengers regardless of their terminal.

The Master Plan Update must address repurposing of the terminal facilities to make enhancements and improve the overall customer experience for all passengers and as activity levels warrant.
Landside facilities include airport access roadways, airport circulation roadways, parking facilities, and the Rental Car Center.

Today through PAL 4, tenant auto parking in the Airparks must be addressed to accommodate demand.

By PAL 4, terminal loop road, rental car center, public parking, tenant parking, and airport employee parking capacity shortfalls must be addressed.
The airport support facilities include those facilities that generally support the aviation function of the Airport and include the air traffic control tower, airfield and aircraft maintenance facilities, cargo facilities, the fuel storage facility, and other facilities not included in the Airfield, Terminal, Landside, or Land Use functional areas.

By PAL 1, fuel storage facilities may need to be addressed to accommodate greater amounts of fuel shipped by ocean-going tanker.

From PAL 1 through PAL 4, cargo and general aviation building capacity must be addressed.

From PAL 2 through PAL 4, cargo and general aviation apron areas must be addressed.

It is important to note that most airport support facilities are developed by airport tenants. Planners must designate sufficient land for tenants to make necessary improvements as warranted by growth in activity. When tenants determine that additional facilities are needed, they will then have the opportunity to address their needs as they see fit.
The largest remaining areas of contiguous developable land for future airport development are located east of the North Airpark, the West Airpark, and the western portion of the South Airpark. Developable land is limited and the Airport must preserve all remaining lands for aviation use or for the generation of additional revenue.
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This Meeting’s Agenda

1. Update project progress
2. Share facility requirements
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The third part of this presentation reviews development constraints for the Ted Stevens Anchorage International Airport Master Plan Update.
Prior to preparing alternatives it is important to consider overall constraints to future facility development at the Airport.

Development constraints establish potential boundaries or limitations to future airport development. In addition to defining development constraints, planners seek to identify development opportunities. Development opportunities are defined as those areas best suited to accommodate future facility development.
Consideration of constraints and opportunities will help guide development of alternatives.

Constraints to development include but are not limited to:

- Noise sensitive residential areas east and southeast of the Airport
- Recreational lands west and southwest of the Airport
- Limited landside access provided only from the east via International Airport Road

Opportunities for development include but are not limited to:

- The undeveloped portions of the North Airpark in the northeast portion of the Airport
- The undeveloped West Airpark on the west side of the Airport
- The undeveloped area east of Runway 7L-25R
- The undeveloped portions of the South Airpark on the southwest side of the Airport
ANC Master Plan Update // Public Open House 4
This Meeting’s Agenda

1. Update project progress
2. Share facility requirements
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5. Next steps

The fourth part of this presentation introduces draft evaluation criteria that will be used to evaluate the various development alternatives.
Evaluation criteria provide planners with a set of consistent criteria against which the merits of a given development alternative can be measured.

The primary purpose of using these criteria is to assess whether Master Plan Update Goals and Objectives are being met.
Evaluation criteria are based on the Master Plan Update Goals and Objectives. The Goals and Objectives cover six broad topic areas. The Master Plan Update goals and objectives are foundational to the alternatives development process. Both concepts and alternatives are prepared by the Master Plan Update team with consideration for the Master Plan Update goals and objectives.

Note that the goal of open communication is an important goal for the overall Master Plan Update process. However, this particular goal does not lend itself to evaluating development alternatives and will not, therefore, be included in the evaluation criteria.
For the purposes of this presentation, we are sharing an example evaluation criteria associated with each goal. However, there are several other criteria that have been developed and continue to be developed for use in evaluating alternatives. The evaluation criteria are, again, based on Master Plan Update Goals and Objectives. The Technical Advisory Committee and the Master Plan Update Working Group participated in the development of draft evaluation criteria during their March 2013 meetings.

The Master Plan Update team encourages interested individuals to review all of the draft evaluation criteria. Draft evaluation criteria are available for viewing at the following locations:

- Open House 4 (March 21, 2013)
- The Online Open House following Open House 4 from March 22, 2013 to April 5, 2013
- The Master Plan Update website (www.ancmasterplan.com)
The illustration above is a simplified example of an alternatives evaluation matrix. It demonstrates that each alternative will be assessed as to what degree it meets the evaluation criteria that are derived from the Master Plan Update Goals and Objectives. The Master Plan Update will document the evaluation process and define how alternatives were assessed.
ANC Master Plan Update // Public Open House 4
This Meeting’s Agenda

1. Update project progress
2. Share facility requirements
3. Review development constraints
4. Introduce draft evaluation criteria
5. Next steps

The final part of this presentation covers next steps in the Master Plan Update process.
This is a schedule that illustrates when work is anticipated to commence on the primary Master Plan Update tasks. The Facility Requirements analysis is now complete and early development of alternatives is underway. The next Open House will include a presentation of initial alternatives. The public will have an opportunity to comment on alternatives prior to the Airport selecting a draft preferred alternative (to be presented in September 2013). Prior to the conclusion of the Master Plan Update, the public will have an opportunity to comment on the draft preferred alternative.
The schedule above illustrates the tentative dates for future Master Plan Update Public Open House events, Technical Advisory Committee Meetings, and Working Group meetings. Your continued involvement in the Master Plan Update is both welcome and encouraged.
The purpose of this presentation was to:

1. Share the findings of the facility requirements analysis conducted for the Ted Stevens Anchorage International Airport Master Plan Update
2. Review some of the constraints to future development of the Airport
3. Introduce draft evaluation criteria that will be used to consider the strengths of various alternatives
Thank you for viewing the Ted Stevens Anchorage International Airport Master Plan Update Online Open House 4 presentation. You may submit a comment to the Master Plan Update team on the project website [www.ancmasterplan.com](http://www.ancmasterplan.com) or by sending an email to [contact@ancmasterplan.com](mailto:contact@ancmasterplan.com).