

AVIGATION EASEMENT & ENVIRONMENTAL ASSESSMENT PRESENTATION

June 7, 2018

# Review November 2, 2017 Presentation

#### FAA EXPECTATIONS



#### **Federal Aviation Administration**

#### MEMORANDUM

Date: August 18, 2015

Regional Airports Division Managers

610 Branch Managers 620 Branch Managers Airports District Office Managers

ce of Airport Safety and Standards (AAS-1)

ice of Airport Planning and Programming (APP-1)

Director, Office of Airport Compliance (ACO-1)

Reminder of Responsibilities for FAA Personnel and Airport

Sponsors for Protecting Approach and Departure Surfaces

#### Introduction

The purpose of this memo is primarily to remind FAA Office of Airports staff about their responsibilities (as well as the responsibilities of airport sponsors) in establishing and maintaining clear approach and departure surfaces at airports. We encourage personnel in all Regions and ADOs to relay this memorandum to all Federally obligated airports and any that are certificated under 14 CFR part 139, as well as all state aeronautical agencies. This memorandum will also be available on the FAA's public website under Safety, Planning and Compliance.

The airport sponsor is ultimately responsible for ensuring clear runway approach and departure surfaces. However, ARP plays an important role in this process. This role is detailed in a separate section below.

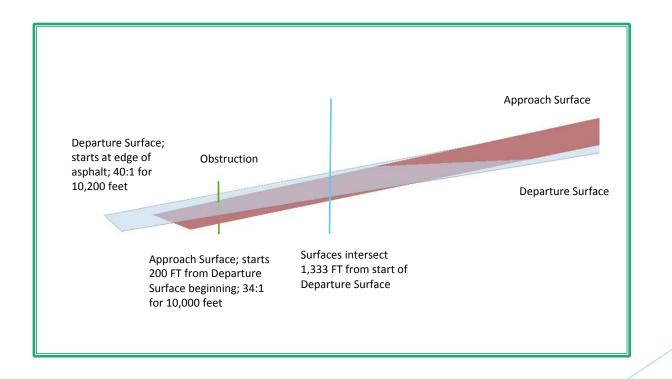
The approach and departure surfaces required to be maintained are those identified by Advisory Circular (AC) 150/5300-13A, Airport Design and FAA Order 8260.3B, The United States Standard for Terminal Instruments Procedures (TERPS). The focus of this document is on the TERPS 20:1 surface. While Part 77 civil airport imaginary surfaces are important, they are not the surfaces discussed in this document as they do not directly affect procedures.

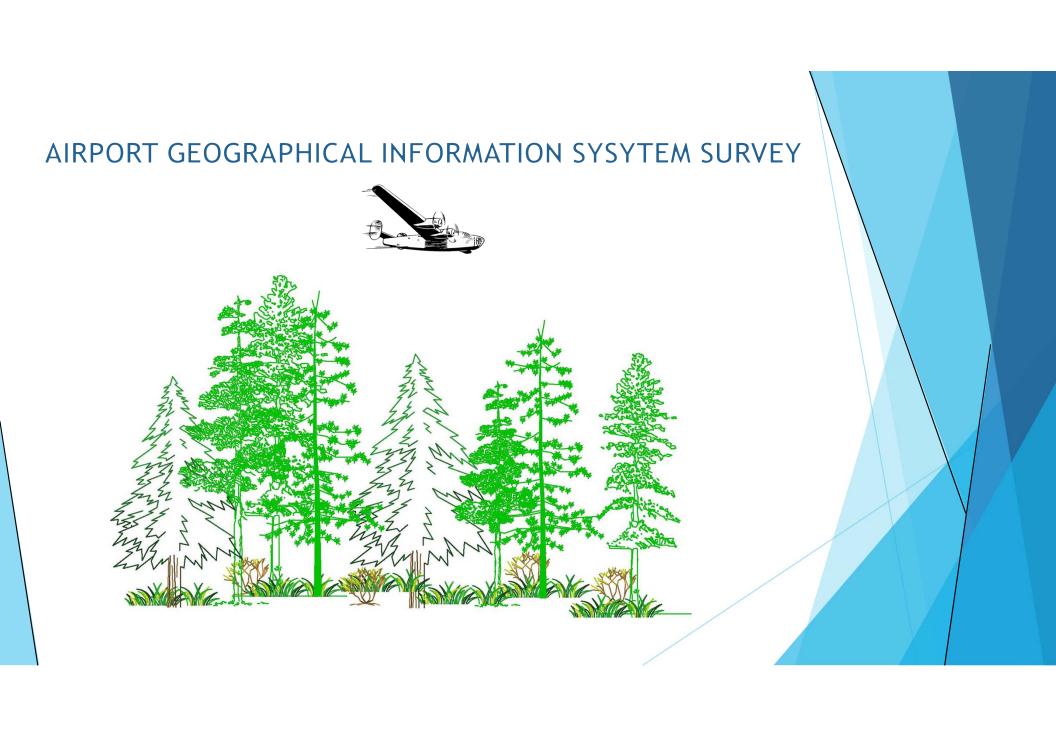
#### Role of the Office of Airports (ARP)

· A core part of ARP's mission is to help maintain and enhance the safety, capacity

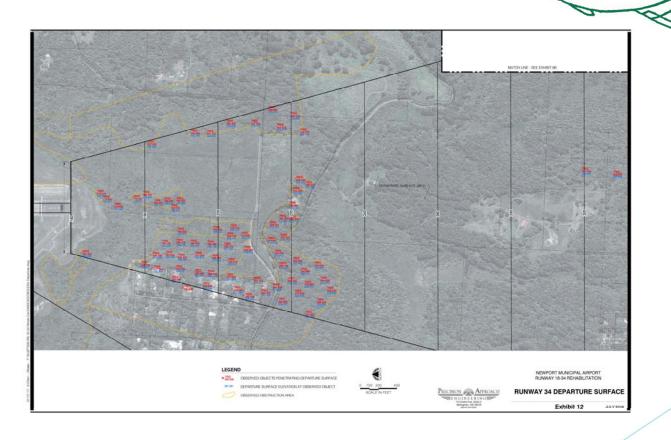
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# Imaginary Surfaces





#### 2015 EXHIBITS





## ONP PROJECT TIMELINE



#### Adjustments:

- Current Phase getting off to a slow start.
- Actual Tree Removal Moved back due to FAA funding obligations.

# **Phase Two**

Avigation Easement Preparation Environmental Assessment

### Next Steps: 18 to 36 Months







- ➤ Prepare Avigation Easement Documents PAE
- ➤ Conduct Environmental Assessment ESA

#### PAE SCOPE

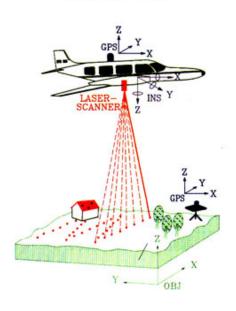


- ► Research current avigation easements attached to parcels associated with off-airport removal.
- Review existing city/county airport overlay code and provide summary. [Required in conjunction with establishing value associated with additional easement impacts.]
- ► Support discussions coordinating how trees will be accessed, removed, and any re-planting and/or restoration measures anticipated for erosion control.
- Coordinate with review appraiser.
- ► Provide legal descriptions for avigation easements (includes support by Professional Land Surveyor Sub-consultant).
- Contract Appraiser to Appraise Fair Market Value (FMV) of each avigation easement. Utilize the part taken and appraisal waiver approaches as applicable - FAA AC 150/5100-17 Chg 7 pg 2-9.



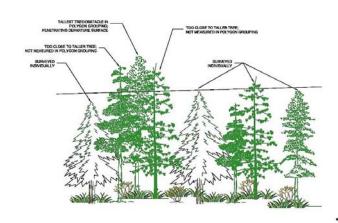
#### LIDAR SURVEY

LASER-SCANNING



More Detailed Scan; delineates every tree penetrating air surfaces.

#### **GROUND SURVEY**



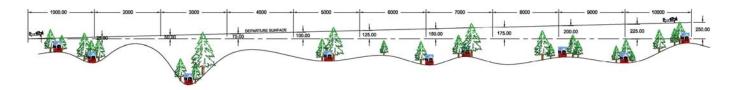
Verifies tree location marked by photogrammetry or LIDAR surveys to property lines.

#### CITY RESPONSIBILITIES



- Obtain review of proposed easement formats from FAA.
- Order and review preliminary title reports (PTR).
- Prepare avigation easements.
- LiDar

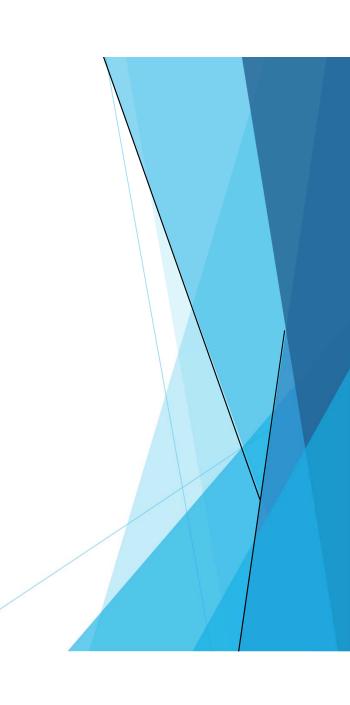
#### AVIGATION EASEMENTS



#### Three Easement Options:

- ❖ Top Trees City tops tree once; Owner pays for tree removal if tree dies; Owner pays to maintain / top / remove tree if it grows back into the airspace.
- Remove Entire Tree; Top Soil and Seed Removal Area
- Remove Entire Tree; No Restoration Work / Owner responsible for Top Soil and Seed.

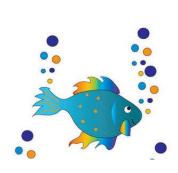
# Easement Questions?



#### ENVIRONMENTAL ASSESSMENT

FEDERAL REQUIREMENT

EROSION CONTROL



GOOD MANAGEMENT PRACTICES

ENVIRONMENTALLY FRIENDLY REMOVAL

#### ENVIRONMENTAL ASSESSMENT

- A. ORDER 1050.1F: Environmental Impacts: Policies and Procedures
- B. ORDER 5050.4B: National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions

#### Elements:

- Water quality; air quality
- Wetlands
- Historic, cultural and archaeological resources
- Endangered and threatened species of flora and fauna
- Biotic communities
- Floodplains
- Farmland
- Land use compatibility
- Social impacts; induced socioeconomic impacts;
- Environmental justice

- Special land uses, dot section 4(f) lands
- Energy supply and natural resources
- Light emissions and visual effects
- Essential fish habitat
- Migratory bird act
- Cumulative impacts
- Coastal management zone program
- Wild & scenic river act
- Hazardous materials
- Solid waste impacts
- Construction impacts

#### RIGHT OF ENTRY AGREEMENT

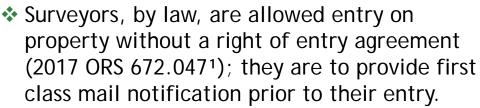
- Biological Resources wildlife, plants, fish and essential fish habitats
- □ Cultural Resource historical, architectural, archeological and cultural impacts
- Coast Resources costal zone management plans
- Water Resources wetlands, floodplains, surface waters, groundwater, wild & scenic rivers, stormwater treatments and impervious surfaces



#### RIGHT OF ENTRY AGREEMENT

Right of Entry - the right of a person to go onto another's real property without committing trespass.





Access property to evaluate environmental conditions potentially impacted by future tree removal.



#### ENVIRONMENTAL ASSESSMENT

Phase 1: 2018

Historic, cultural and archaeological resources

Environmental Screening

❖ TBD

Phase 2: 2020

❖ TBD



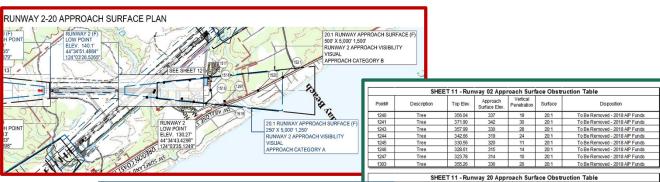


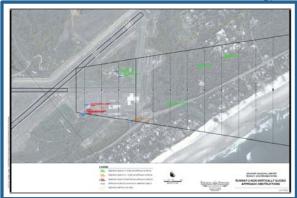
# Environmental Assessment Questions?

### USCG Tree Removal



#### USCG Tree Removal





Description	Top ⊟ev.	Approach Surface Elev.	Vertical Penetration	Surface	Disposition
Tree	189.57	299	-109	20:1	To Remain
Road	109.02	266	-157	20:1	To Remain
Hangar (F)	158.00	275	-117	20:1	To Remain
Road	123.05	277	-154	20:1	To Remain
Highway 101	77.91	301	-223	20:1	To Remain
Highway 101	109.99	352	-242	20:1	To Remain
Highway 101	112.02	391	-279	20:1	To Remain
SHEET 12 -	Runway 0	2 Inner App	roach Sur	face Obst	ruction Table

Sign         131.           Taximay A         142.           Taximay A         143.           Group Tiedown         134.           Taximay A         145.	23 187	scription Top Elev. Surface Elev. Pene	ertical etration Surface	Disposition
Taxiway A         142.           Taxiway A         143.           Group Tiedown         134.           Taxiway A         145.				
Taxiway A 143. Group Tiedown 134. Taxiway A 145.		Sign 131.23 187 -	-56 20:1	To Remain
Group Tiedown 134.1 Taxiway A 145.1	30 175	riway A 142.00 175 -	-33 20:1	To Remain
Taxiway A 145.	00 188	riway A 143.00 188 -	-45 20:1	To Remain
	00 192	Tiedown 134.00 192 -	-58 20:1	To Remain
Harris ACC 1	00 204	khway A 145.00 204 -	-59 20:1	To Remain
Hangar 155.	00 230	langar 155.00 230 -	-75 20:1	To Remain
Electrical Vault 125.5	99 243	rical Vault 125.99 243 -	-117 20:1	To Remain
USCG Building 151.		Building 151.00 249 -	-98 20:1	To Remain

