

PORTLAND AIRPORT RUNWAY EXTENSION: CHALLENGES AND SUCCESSES

MARCH 15, 2023



Purdue Road School Transportation Conference & Expo

PRESENTATION AGENDA



Project Overview

Airport History

Extension Justification

Airport Layout Plan Update

Environmental Study

Land Acquisition

Stream Mitigation

Design

Construction Phase 1

Construction Phase 2

Summary





PROJECT OVERVIEW



CHALLENGES

- Runway Extension Justification
- Airport Layout Plan Approval
- FAA Environmental Approval
- Land Acquisition
- Stream Mitigation
- Construction Funding





AIRPORT HISTORY



1947 – Three Turf Runways





1982 – 4,000' Paved



RUNWAY EXTENSION JUSTIFICATION BEES



CHALLENGES

- Started November 2013
- Multiple Rounds of FAA Comments
- Trip to Chicago ADO
- **Conference Calls with Operators**
- 788 Annual Operations that Justified 5,500' Runway Length
- Approved January 2015





RUNWAY EXTENSION JUSTIFICATION BE



Saturday, January 31, 2015

The Commercial Review

Portland, Indiana 47371

www.thecr.com

ISTEP sparks alarm

CRAWFORDSVILLE, Ind. (AP) — Some Indiana educators say they re con-cerned that young stu-dents won't have the stam-ina to complete the more rigorous tests being rolled out this spring to measure student achievement. Their alarm stems from

testing schedules for a revamped ISTEP+ test, Indiana's standardized test for grades 3 through 8. The exam will be administered to about 450,000 students to assess their mastery of new math and English benchmarks.

Educators say they were told last year that the new test would be more rigorous. But sever-al told The Journal Review that they weren't prepared for the new assessments to take significantly longer than the

An estimate of testing An estimate of testing times provided to The Associated Press by the Department of Education Friday shows students in all grade levels spent an average of 5 hours and 9 minutes to complete all sections in 2014.
The total time for the

"That's been my No. 1 objective for the airport ... getting the runway extension. My initial reaction was joy." —Hal Tayzel, Portland Municipal Airport manager

Extension approved



Plans can now move forward on a 1,500-foot runway extension at Portland Municipal Airport (pictured) after the Federal Aviation Administration notified Portland Board of Aviation Friday that it approved a justification study for the project. The city must now acquire land for the extension, for which construction is not likely to begin until at least 2017.

FAA gives OK to longer airport runway

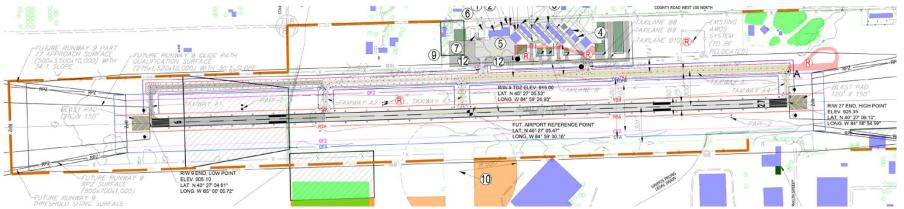
AIRPORT LAYOUT PLAN UPDATE



CHALLENGES

- The current approved Airport Layout Plan was for a future runway length of 5,000'
- Full ALP update completed and submitted in 2015.
- Final approval was issued in 2019 which held up the project design.





ENVIRONMENTAL STUDY



CHALLENGES

- FAA issued a Finding of No Significant Impact (FONZI) in 2007.
- However, it was for only a 1,000' extension of the runway and taxiway.
- In 2016, we re-coordinated with agencies, Section
 106, and submitted written re-evaluation request to FAA.





U.S. Department of Transportation

Federal Aviation Administration

City of Portland Portland Municipal Airport C/O David Miller Airport Manager 661 W 100 N Portland, IN 47371

> RE: Portland Municipal Airport Portland, Indiana Finding of No Significant Impact

Dear Airport Sponsor:

On the basis of an Environmental Assessment, the Chicago Airports District Office has issued a Finding of No Significant Impact (FONSI) for proposed Federal actions associated with the extension of Runway 09/27. Enclosed for your use is a copy of the approved environmental decision document. Please refer to the document for a summary of the proposed actions/development items and any required mitigation.

Great Lakes Region Illinois, Indiana, Michigan, Minnesota, North Dakota, Ohio, South Dakota, Wisconsin

2300 East Devon Avenue, Suite 312 Des Plaines, Illinois 60018

September 13, 2007

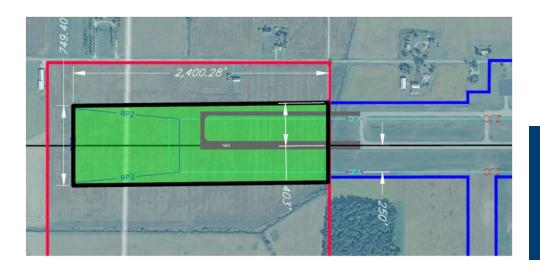
LAND AQUISITION



CHALLENGES

- 41.2 Acres needed for 1,500' Extension
- Purchase entire Runway Protection Zone (RPZ)
- \$652,000 (\$15,825/ac) closed on 9/30/2016











STREAM AND WETLAND MITIGATION PROGRAM

- Indiana DNR In-Lieu Fee (ILF) Program started in 2018
- Statewide program to purchase stream and/or wetland mitigation credits
- Applicable for permitted impacts authorized under 404/401 of the Clean Waters Act and other authorizations
- Developers can purchase credits in-lieu of performing mitigation themselves
- Transfers legal obligation to provide mitigation to Indiana DNR
- Regulated by the Corps of Engineers & EPA under 2008 Federal Rule 33 CFR Part 332









FOR THE DEVELOPER

- Comparable cost of mitigation construction and monitoring
- Eliminates construction, maintenance, monitoring, and liability for mitigation efforts
- Speeds up permitting timeframe by nearly 50 percent

FOR THE STATE

- Allows for flexibility to combine mitigation needs into larger, more sustainable aquatic resource restoration projects
- Better opportunity for mitigation success by having DNR complete restoration projects and mitigation plans
- Better selection of mitigation project sites using a watershed approach





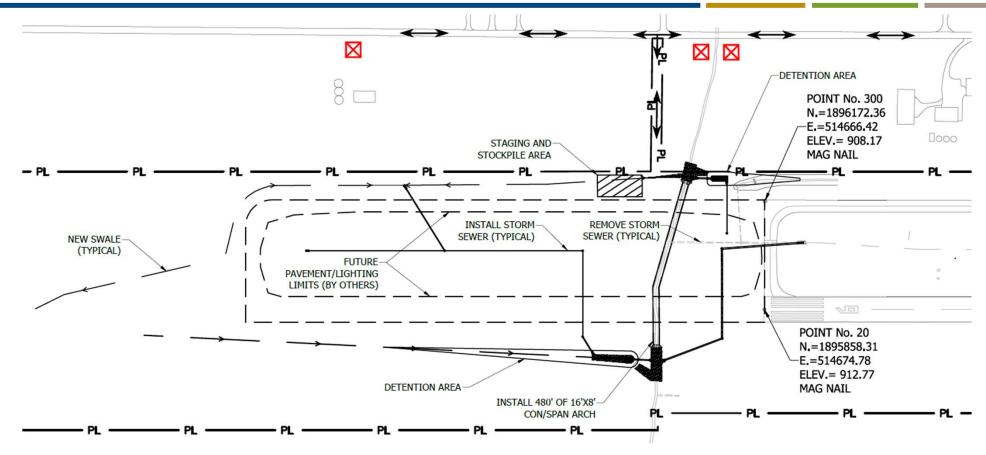
PORTLAND MUNICIPAL AIRPORT

- Required to perform 666 linear feet of stream mitigation
- The airport opted to purchase stream mitigation credits @ \$400 a credit for a total of \$266,400
- Legal obligation to identify, scope, construct, monitor, and maintain stream mitigation was transferred from the airport to the State



DESIGN





DESIGN – GRADING AND DRAINAGE BE



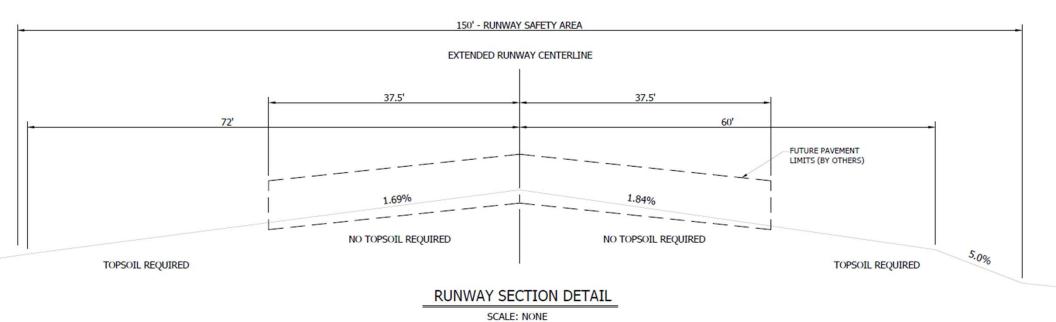
- Earthwork grading: 112,000 CYS of earthwork, including 101,000 CYS of borrow material
- Storm Sewer: 2,150 LFT of new storm sewer pipe, 11,000 LFT of new underdrain pipe
- Box Culvert: 480 LFT of 16' x 8' box culvert





DESIGN – GRADING AND DRAINAGE **BF**





DESIGN – GRADING AND DRAINAGE BEES



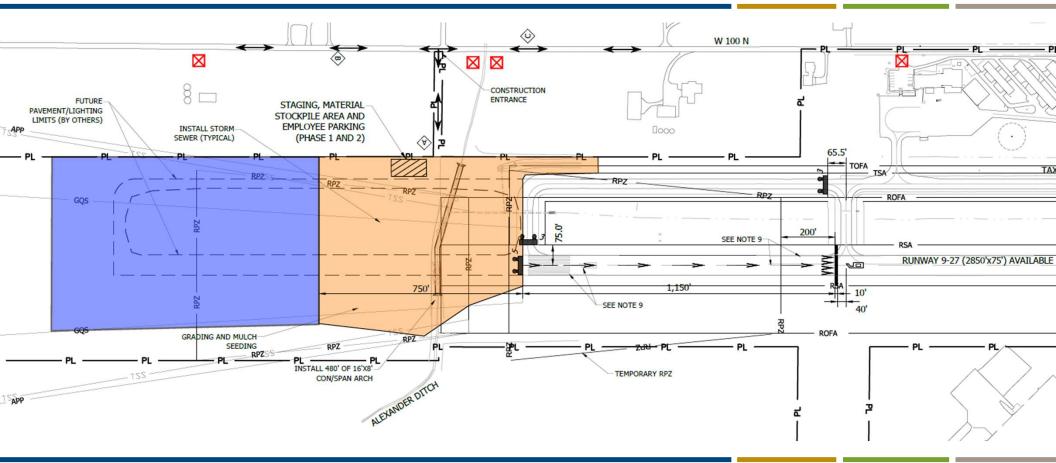




















DESIGN – PAVING AND LIGHTING



• Cement Treated Subgrade: 24,300 SYS

• Aggregate Base: 3,950 CYS

Asphalt: 7,700 tons



• Electrical Conduit: 6,500 LFT

• Electrical Cable: 12,500 LFT

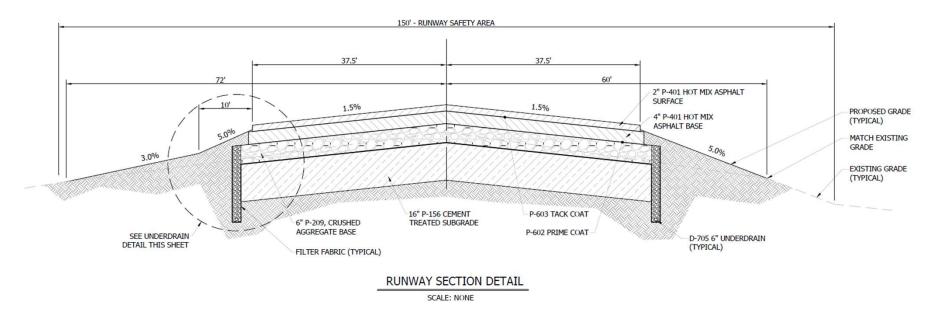
• Electrical Fixtures: 55 lights/signs



DESIGN – PAVING AND LIGHTING

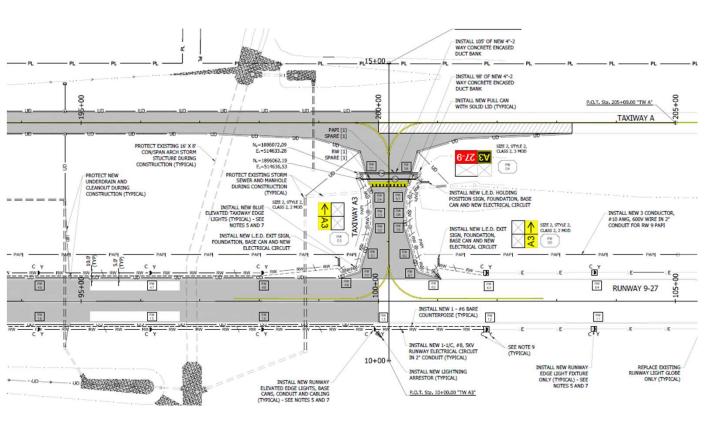


- 6" FAA P-401 Hot Mix Asphalt
- 6" FAA P-209 Crushed Aggregate Base Course
- 16" FAA P-156 Cement Treated Base Course



DESIGN – PAVING AND LIGHTING



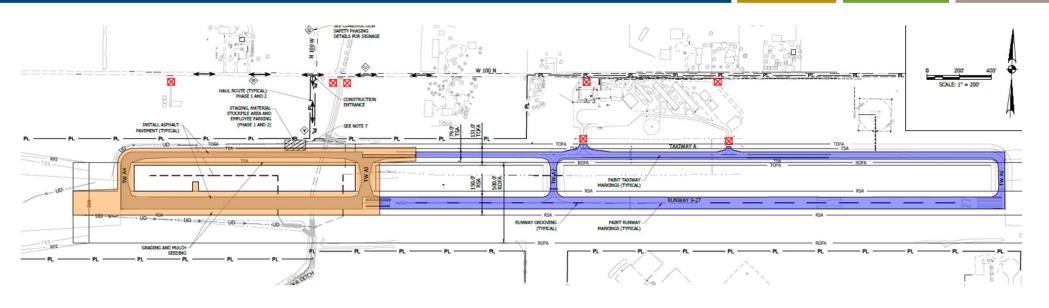


- Reconfigure old end connector
- Transitions
- Circuit Extensions









- Phase 1
- 75 Calendar Days

- Phase 2
- 5 Calendar Days





PANDEMIC IMPACTS



- Due to the pandemic, the FAA issued AIP grants in 2020 and 2021 at 100% Federal Share
- Portland's 2020 grant for Grading and Drainage Construction was \$2,971,245
- Portland's 2021 grant for Paving and Lighting Construction was \$3,266,521
- The result was the local community saved \$311,888 (the 5% match)





THE FUTURE...





WHAT A 5,500' RUNWAY DOES FOR THE AIRPORT







BY THE NUMBERS



1999	Runway extension idea proposed
2007	Environmental Assessment (EA) document approved by FAA
2015	FAA approves the runway length of 5,500 ft (extension of 1,500 ft)
2016	41.2 acres of land acquired for \$652,000
2017	EA Re-Evaluation Request approved by FAA
2018	Runway and Taxiway Extension Design Begins
2019	Airport Layout Plan approved by FAA
2020	Portland Municipal Airport purchases 666 stream credits to mitigate impacts
2021	June 6th Groundbreaking Ceremony and Phase I Construction begins
2022	Phase I Construction completed and Phase II Construction begins



BY THE NUMBERS



Planning & Design Costs

• \$717,926

Enabling Project Costs (Land and ILF credits)

• \$948,875

Construction Cost (Phase I and Phase II)

\$5,323,300 100% Federally Funded

Construction Inspection Costs \$490,679 100% Federally Funded

Total Project Cost

\$7,480,780



QUESTIONS?



PRESENTERS



Jason Clearwaters, PE, PS Airport Production Manager



John Feister, PE Airport Project Manager



Hal Tavzel
Portland Airport Manager
Sonrise Aviation
Tavzel Aviation

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