




AIRPortal: An Authoritative Source for GIS Data and Engineering Records

Wednesday, March 29, 2017



Introductions

- Mr. Paul L. Shank, PE
 - Chief Engineer, Maryland Aviation Administration
- Mr. Ali Logmanni
 - Manager, GIS & Engineering Technology, Maryland Aviation Administration
- Ms. Julie Spangler, GISP
 - Project Manager, JMT



Agenda

- Overview of AIRPortal
- Overview of applications available in AIRPortal
 - Gate Management
 - Airfield Signs and Markings
 - Geotechnical Viewer
 - Pavement Management
 - All Utilities
 - Engineering Records
- Looking ahead to upcoming enhancements and new applications



What is AIRPortal?

AIRPortal

Airport **I**nformation **R**etrieval **P**ortal

A secure web based portal where users access data and applications that support critical airport business functions



The Business Need for AIRPortal

- Goals
 - GIS data development for exterior utility systems
 - Document management for design and construction projects
- Database design and implementation to meet the needs of the airport and to comply with FAA AGIS requirements



AIRPortal Value & Benefits

- Provides value to a multitude of airport stakeholders
- Engineering records at your fingertips
- Trusted, authoritative source for data & applications
- Facilitates data sharing and collaboration
- Increases efficiency
- Integrates consultants into processes



AIRPortal Statistics

- Approximately 550 registered users
 - Half are internal MAA personnel
 - Half are consultants
- 40+ applications deployed
- 130,000+ documents cataloged
- 550,000+ GIS features captured



A Sample

AIRPORTAL APPLICATIONS



Today we will highlight:

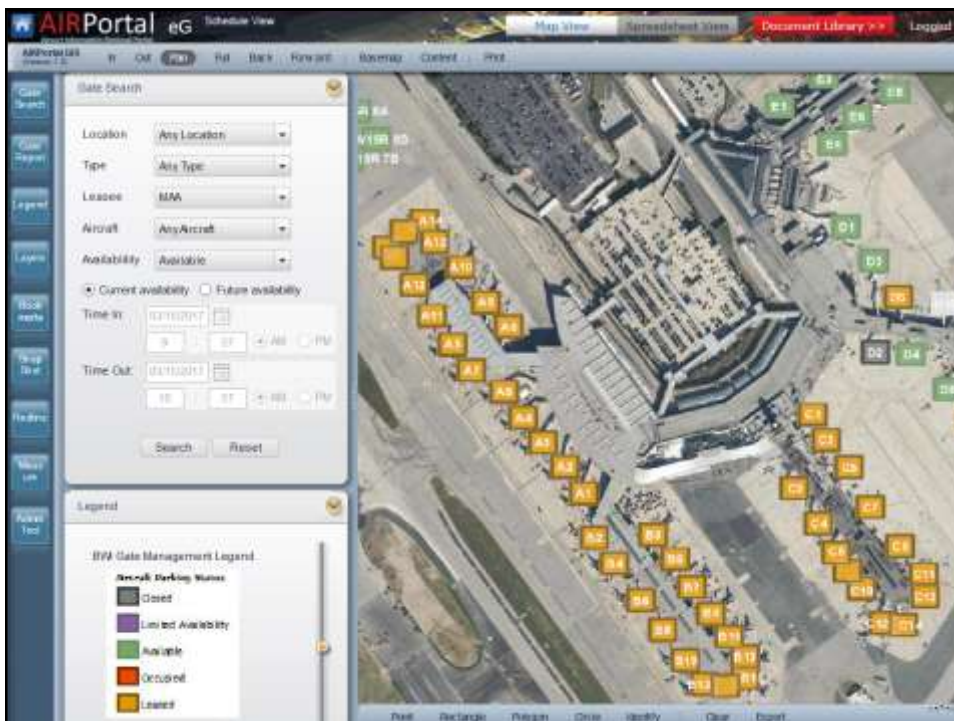
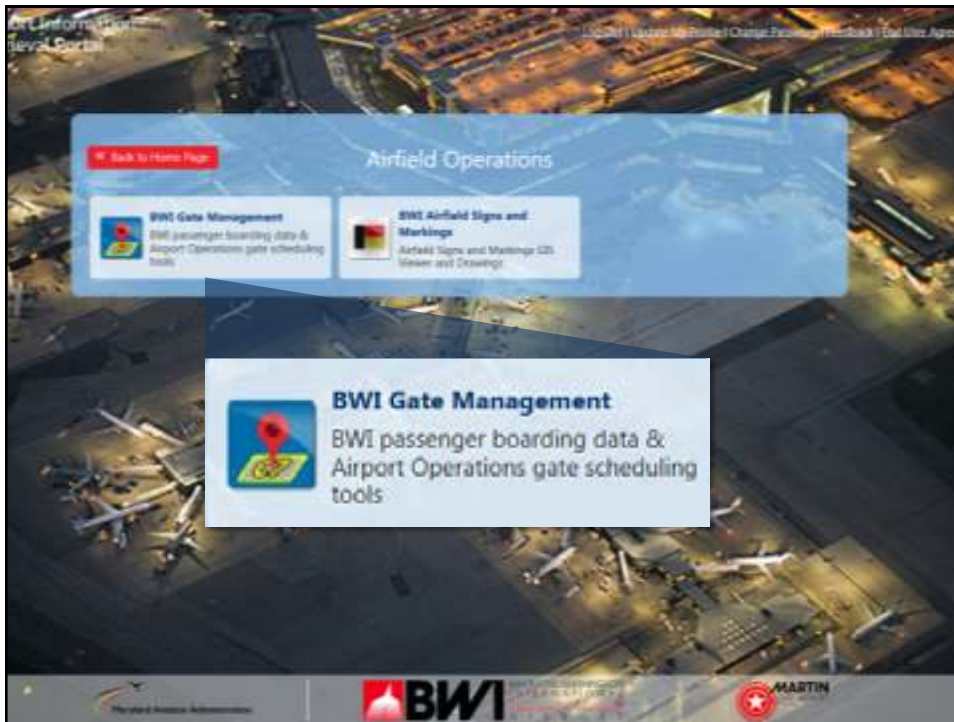
- Gate Management
- Airfield Signs and Markings
- Geotechnical Viewer
- Pavement Management
- All Utilities
- Engineering Records

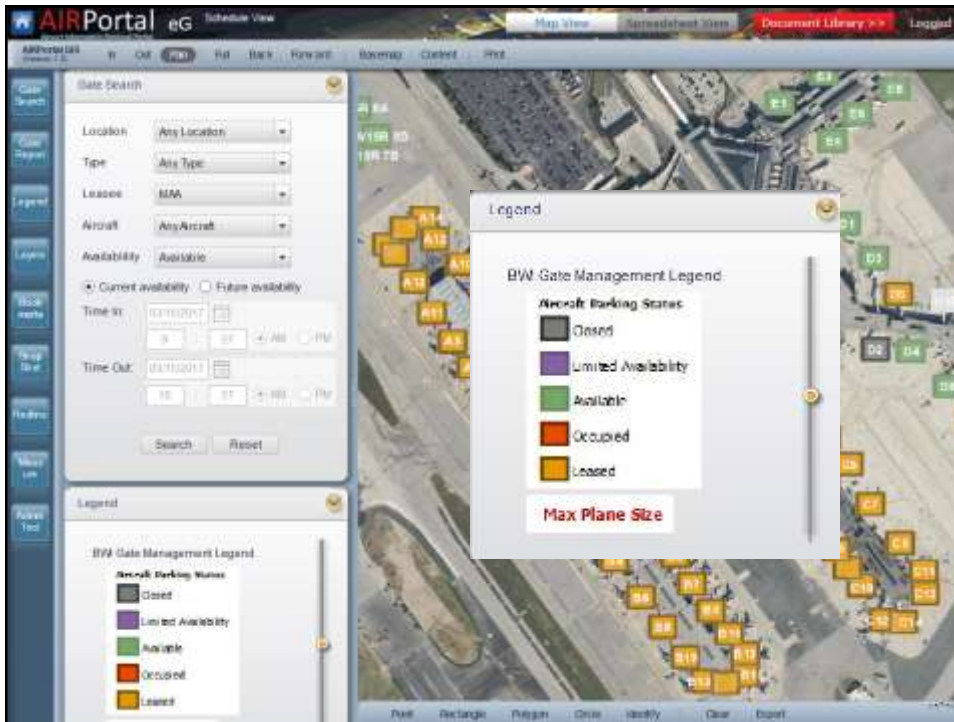


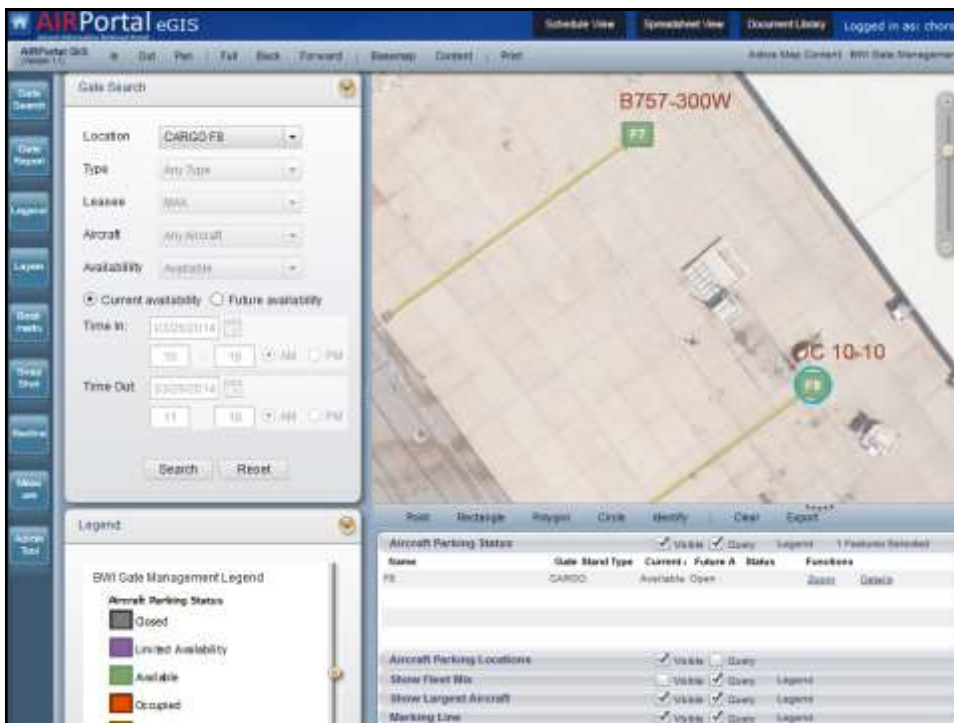
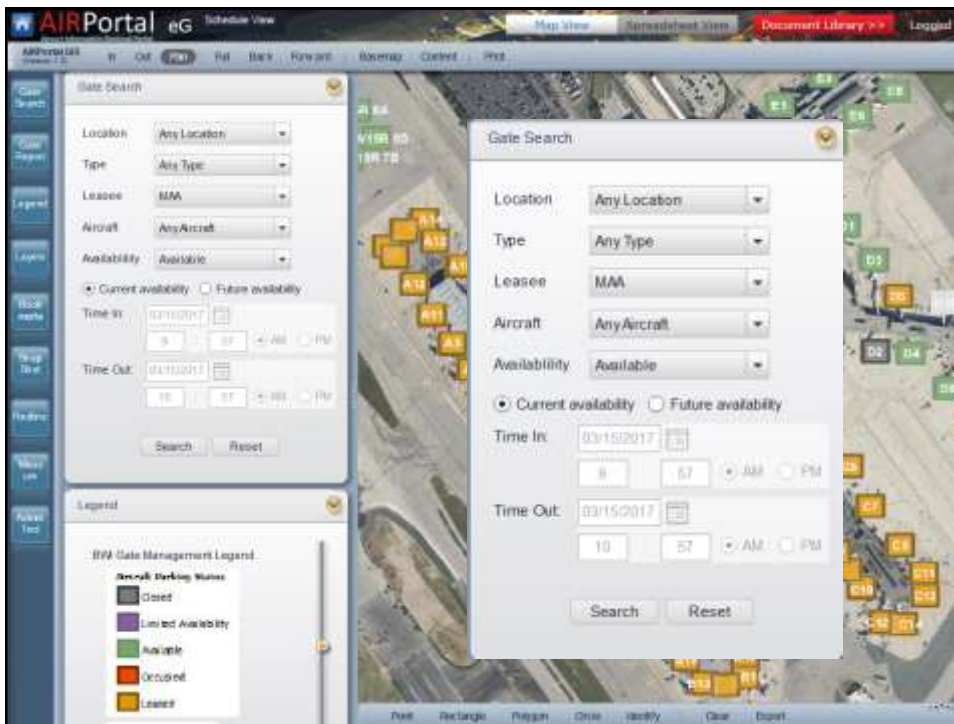
AIRportal Applications - Johnson, Mirmiran and Thompson

Airfield Operations	BW1 GIS Applications	BW1 Structures Inventory
Airfield Operations	Martin State Airport	Pavement & Geotechnical
Additional Document Manager (ADM) Application to manage the Electronic Submittals	Building Floor Plans Floor Plans & Space Allocation Coverage for BW1 Member's User Terminal	Chief Engineer's Projects Reports
Designer Tools Reference Library of documents & templates used by BW1 Design Consultants	Interior Space Manager View building's interior space layouts, space utilization, and associated data	Design Standards Manual MVA's standards & procedures for the design of construction projects
Maryland ArcGIS Online Provides access to State of Maryland ArcGIS Online accounts		

Personal Access Address:







AIRPortal eGIS | Schedule View | Spreadsheet View | Document Library | Logged in as: barnith@mnt.com | EA

CARGO: F4
 *ID 11 extends past Group IV Taxiway DFA by approx 4.5 feet

Fleet Mix:

- ID 11
- DC 10-40
- B787-300
- L 1011-200
- A300-600F
- A310-200
- B757-300W
- C-130H-30
- A319
- A320-200
- B727-200

Schedule		Booking		Request Booking		Information	
From	To	In	Out	In	Out		
20140324 00:00	20140324 10:00						
20140325 00:00	20140325 10:00						
20140326 00:00	20140326 10:00						
20140327 00:00	20140327 10:00						
20140328 00:00	20140328 10:00						
20140329 00:00	20140329 10:00						

Buttons: [History]

AIRPortal - Gate Management | Airport Information Southwest Portal | Logged in as: Chorst | Feedback

Schedule View | **Spreadsheet View** | Document Library

Show all gates
 Search Text:
 [SEARCH] [CLEAR]

Name	Type	Airline	Make	Model Number	Range	Elevation	Serial #	Supports RJ	Year	Photos
A2	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	155.69	0G30020	No	2005	Photos
A3	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	154.54	0G30010	No	2005	Photos
A4	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	152.46	0G30028	No	2005	Photos
A5	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	150.43	0G30023	No	2005	Photos
A6	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	152.25	0G30011	No	2005	Photos
A7	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	152.3	0G30012	No	2005	Photos
A8	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	152.28	0G30020	No	2005	
A9	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	152.23	0G30013	No	2005	Photos
B1	GATE	AirTran Airways	JETWAY	A3-58/110	52-95	158.75	0G30016	No	2005	Photos
B10	GATE	Southwest Airlines	JETWAY	A3-58/110	52-95	159.71	30201	No	2000	Photos
B11	GATE	AirTran Airways	JETWAY	A3-48/86	40-71	158.88	30207	No	2000	Photos
B12	GATE	Southwest Airlines	JETWAY	A3-69/119	53-104	159.64	30204	No	2000	Photos
B13	GATE	AirTran Airways	JETWAY	A3-69/141	60-126	159.72	30206	No	2000	Photos
B14	GATE	Southwest Airlines	JETWAY	A3-44/79	36-63	158.06	30205	No	2000	Photos
B15	GATE	Southwest Airlines	JETWAY	A3-69/141	60-126	159.63	30200	No	2000	Photos

AIRportal - Gate Management

Logged in as: chorst | Password

Show all gates
 Search Text:




Image 2 of 9 CLOSE X

Supports RJ	Year	Photos
10	2005	Photos
10	2005	Photos
10	2005	Photos
10	2005	Photos
10	2005	Photos
10	2005	Photos
10	2005	Photos
10	2005	Photos
10	2000	Photos
10	2000	Photos
10	2000	Photos

B13	GATE	Air Mail Airways	JETWAY	A3-69/141	80-126	159.72	39200	No	2000	Photos
B14	GATE	Southwest Airlines	JETWAY	A3-44/78	36-63	159.06	39200	No	2000	Photos
B15	GATE	Southwest Airlines	JETWAY	A3-69/141	80-126	159.63	39200	No	2000	Photos

AIRportal
Airport Information Related Portal

[Log Out](#) | [Update My Profile](#) | [Feedback](#) | [End User Agreement](#) | Logged in as: chorst

[Back to Home Page](#)

Airfield Operations



BWI Gate Management
BWI passenger boarding data & Airport Operations gate scheduling tools



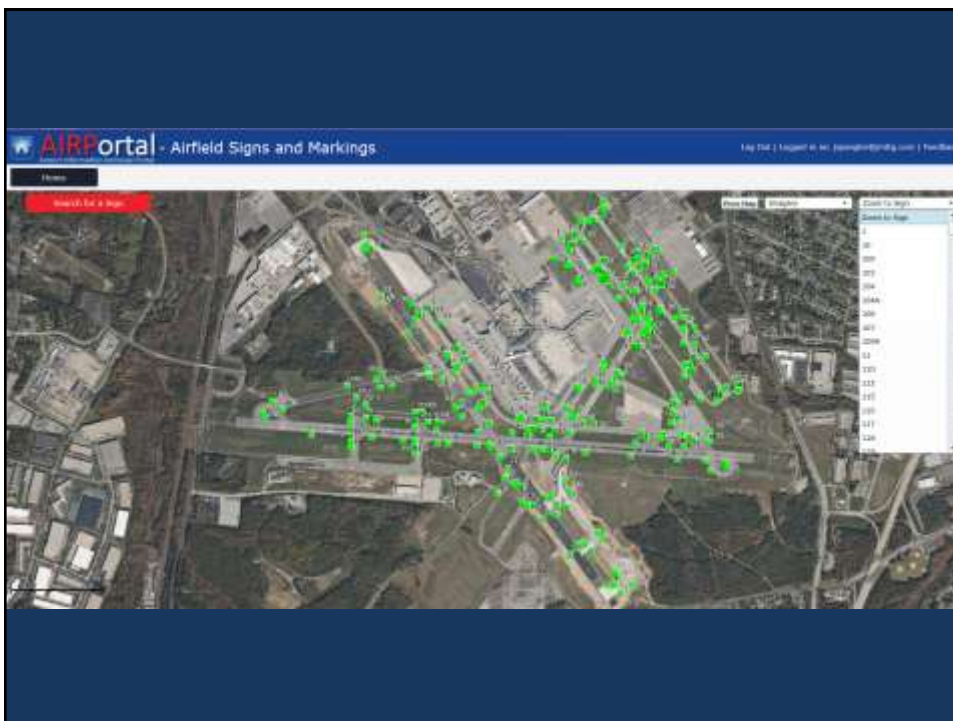
BWI Airfield Signs and Markings
Airfield Signs and Markings GIS Viewer and Drawings



BWI Airfield Signs and Markings
Airfield Signs and Markings GIS Viewer and Drawings







AIRPortal - Airfield Signs and Markings

Log Out | Logged in as: [username@company.com] | Feedback

Home

Interactive Map

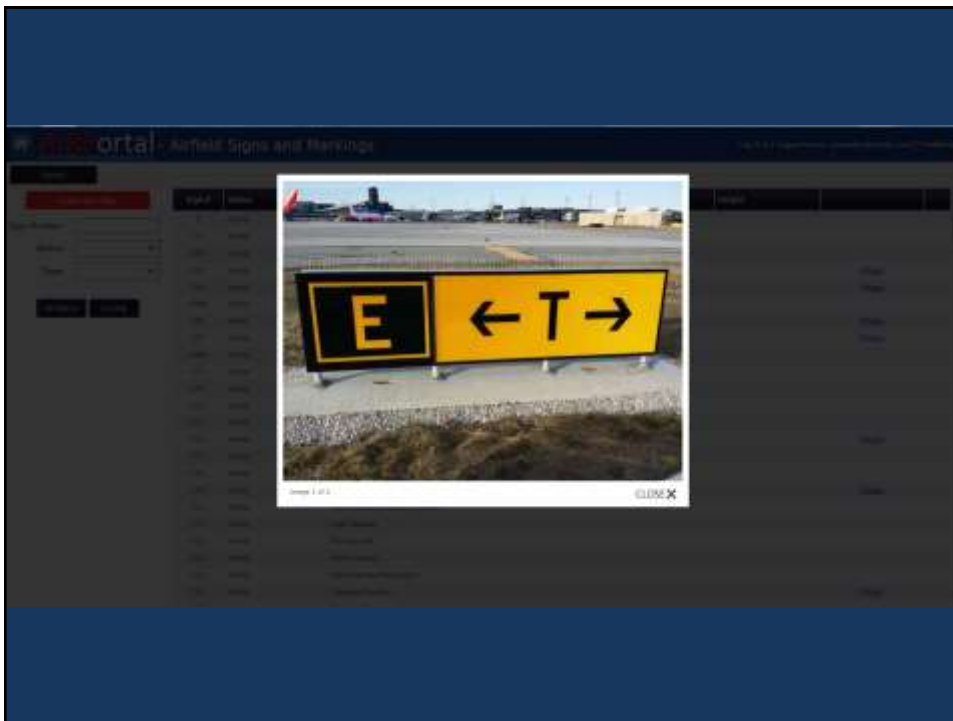
Sign Number:

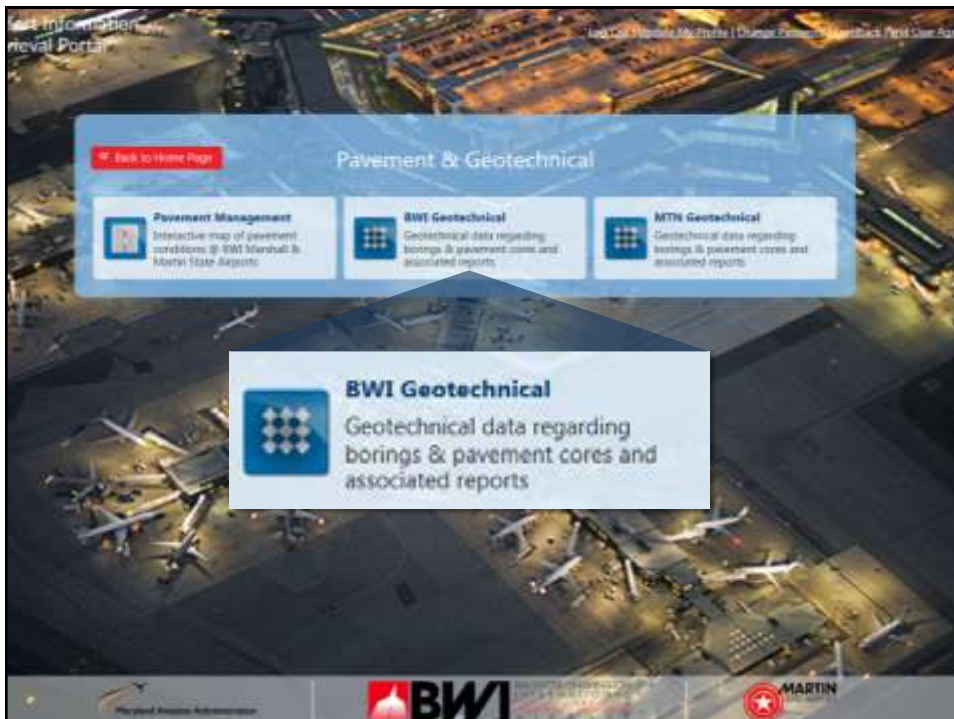
Status:

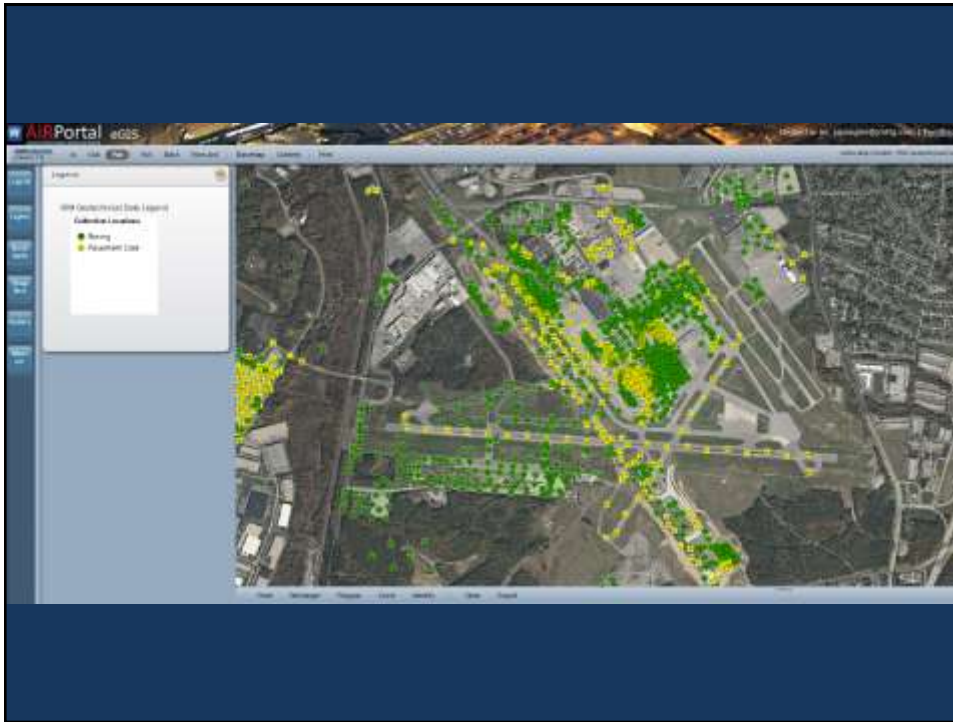
Type:

SEARCH **CLEAR**

Sign #	Status	Type	Height
1	Active	Obstacle Obstruction	
2	Active	Hold Position	
3	Active	Runway Obstruction	
4	Active	Runway End	
5	Active	Runway Center	
6	Active	Runway Edge	
7	Active	Runway Edge	
8	Active	Runway Edge	
9	Active	Runway Edge	
10	Active	Runway Edge	
11	Active	Runway Edge	
12	Active	Runway Edge	
13	Active	Runway Edge	
14	Active	Runway Edge	
15	Active	Runway Edge	
16	Active	Runway Edge	
17	Active	Runway Edge	
18	Active	Runway Edge	
19	Active	Runway Edge	
20	Active	Runway Edge	
21	Active	Runway Edge	
22	Active	Runway Edge	
23	Active	Runway Edge	
24	Active	Runway Edge	
25	Active	Runway Edge	

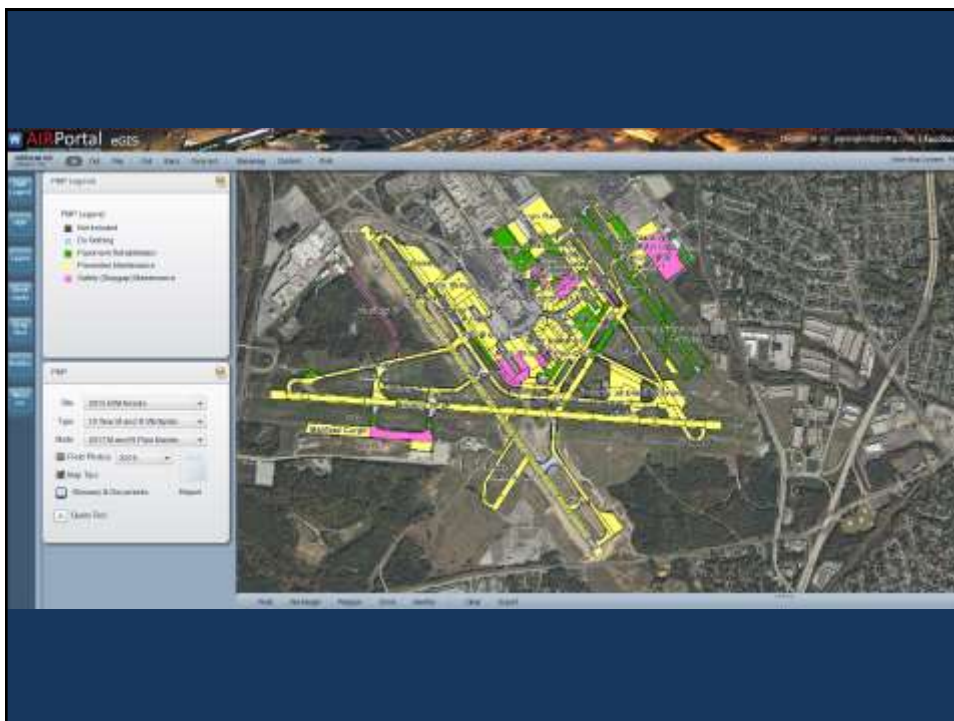


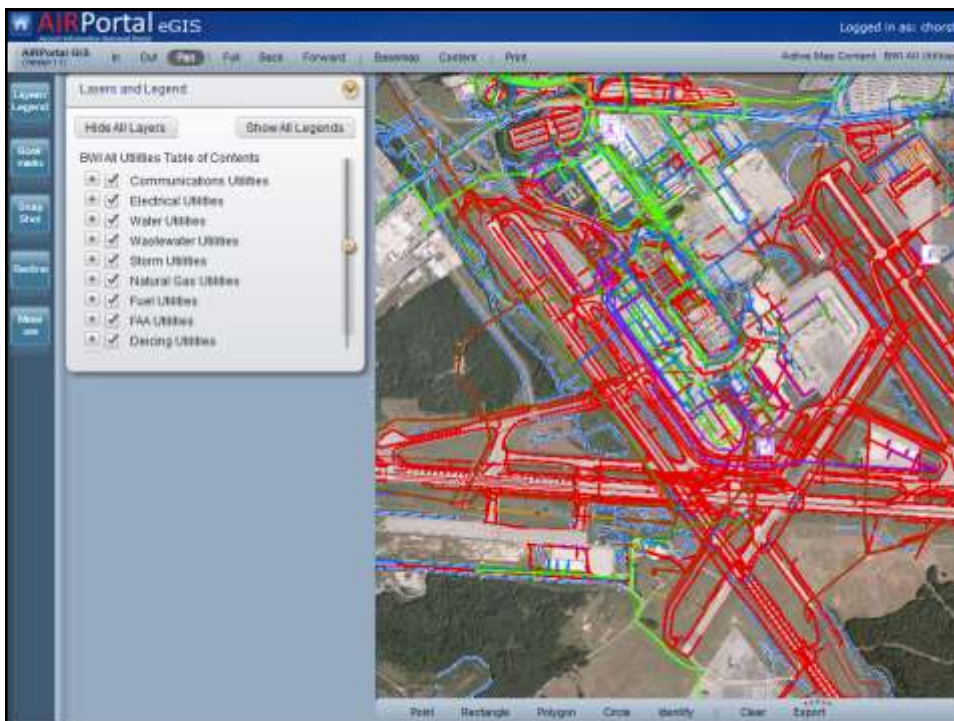
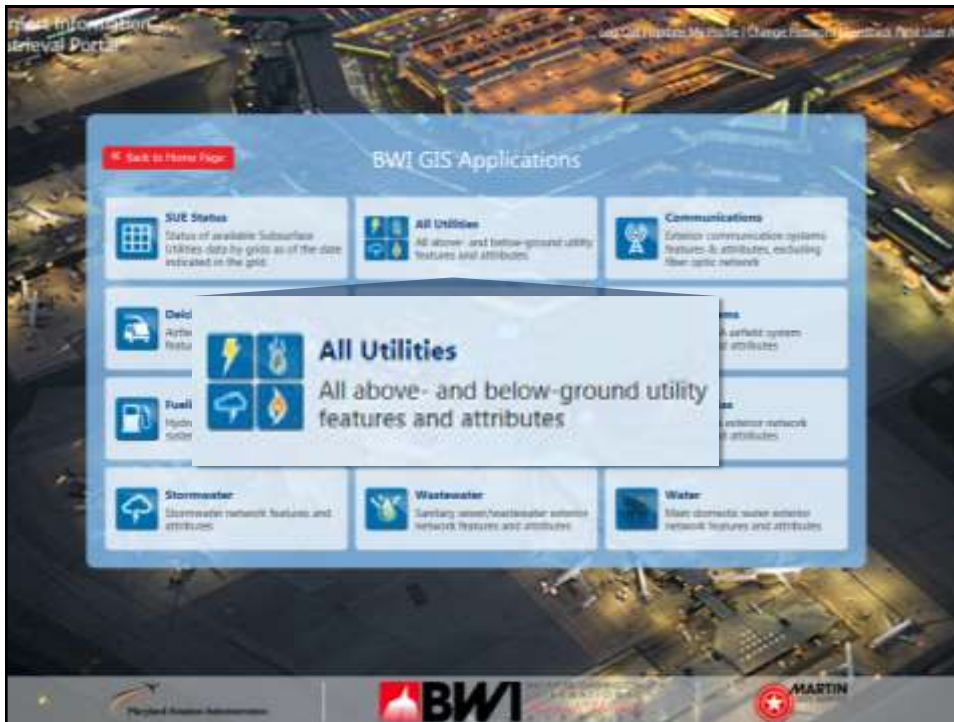




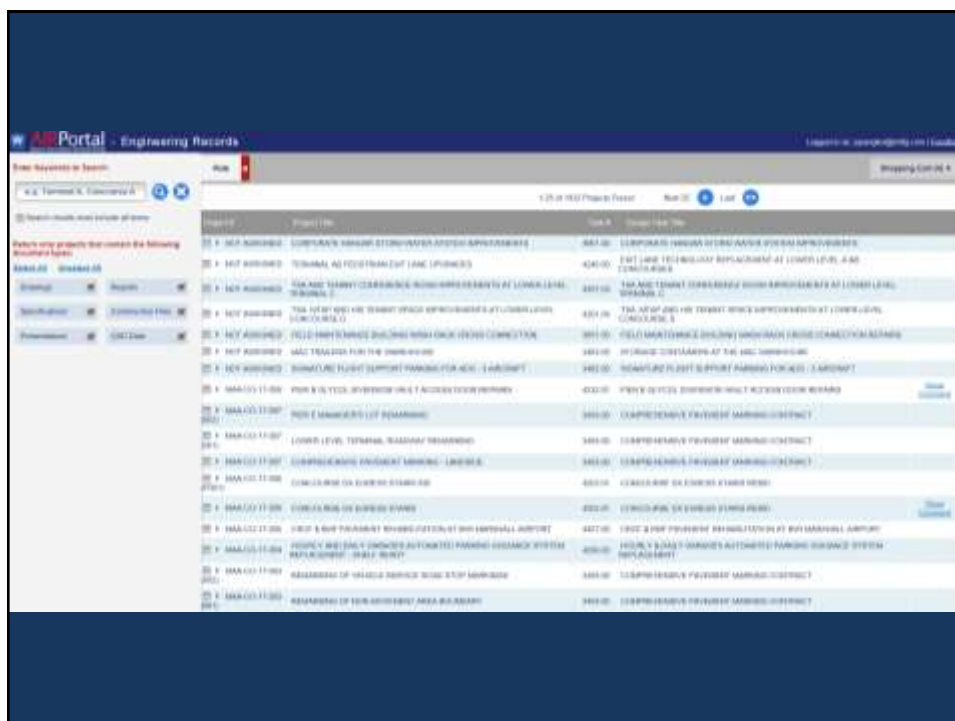
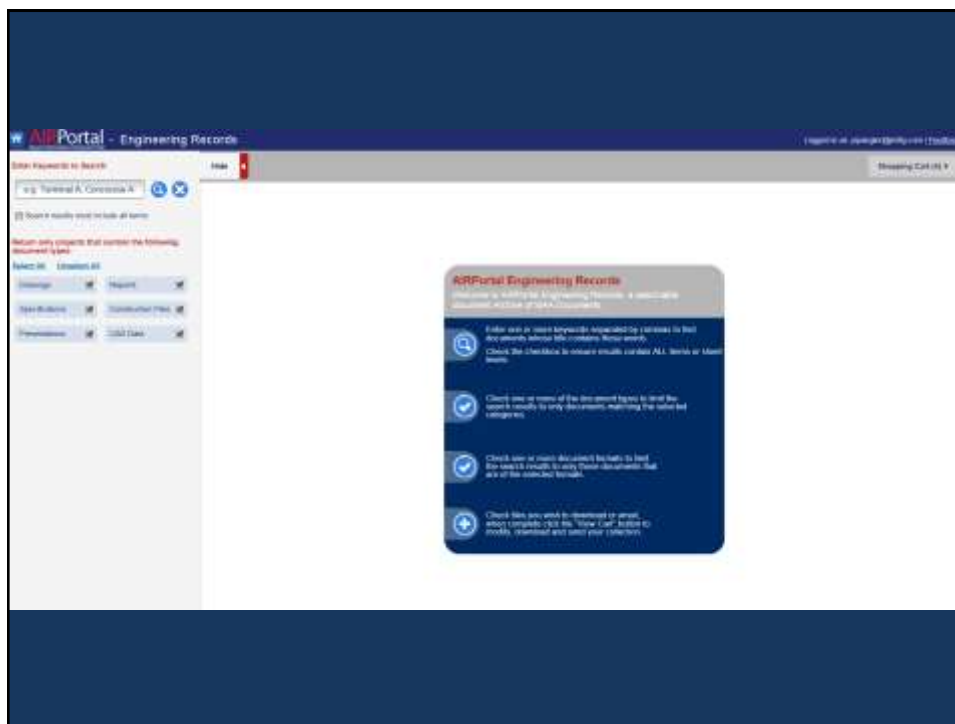












The screenshot shows the AIRPortal Engineering Records interface. At the top, it says "AIRPortal - Engineering Records" and "Logged in as: [username]". Below the header, there's a search bar with "v.g. Terminal A, Concourse A" entered. A sidebar on the left contains filters for "Project Type", "Status", "Contract Type", and "Contract Status". The main area displays a table of projects with columns for "Project ID", "Project Name", "Status", and "Contract Type". The table lists various projects related to Concourse E Extension and other airport infrastructure. Below the table, there are sections for "Reports" and "Links".

Project ID	Project Name	Status	Contract Type
MAA0011000	CONCOURSE E EXTENSION STAIRS 201	4000 - CONCOURSE E EXTENSION STAIRS 201	4000 - CONCOURSE E EXTENSION STAIRS 201
MAA0011000	CONCOURSE E EXTENSION STAIRS 202	4000 - CONCOURSE E EXTENSION STAIRS 202	4000 - CONCOURSE E EXTENSION STAIRS 202
MAA0011000	CRP & RFP PRESENTATION DEVELOPMENT AT BAY MARSHALL AIRPORT	4400 - CRP & RFP PRESENTATION DEVELOPMENT AT BAY MARSHALL AIRPORT	4400 - CRP & RFP PRESENTATION DEVELOPMENT AT BAY MARSHALL AIRPORT
MAA0011000	HEAVY AND MEDIUM WEIGHT AUTOMATED PARKING COLLAPSED SYSTEM REPLACEMENT - SINGLE DECK	4500 - HEAVY AND MEDIUM WEIGHT AUTOMATED PARKING COLLAPSED SYSTEM REPLACEMENT	4500 - HEAVY AND MEDIUM WEIGHT AUTOMATED PARKING COLLAPSED SYSTEM REPLACEMENT
MAA0011000	REPAIRING OF VEHICLE SERVICE FLOOR STOP DAMMERS	4900 - COMPENSATORY PAYMENT WORKING CONTRACT	4900 - COMPENSATORY PAYMENT WORKING CONTRACT
MAA0011000	REPAIRING OF NON-VEHICLE FLOOR STOP DAMMERS	4900 - COMPENSATORY PAYMENT WORKING CONTRACT	4900 - COMPENSATORY PAYMENT WORKING CONTRACT
MAA0011000	COMPENSATORY PAYMENT WORKING - AIRSIDE	4900 - COMPENSATORY PAYMENT WORKING CONTRACT	4900 - COMPENSATORY PAYMENT WORKING CONTRACT
MAA0011000	RFP ACCESS ROAD BETWEEN AIRWAY BRIDGE AND TARMAC AT BAY	4900 - JURY DECISION HAS DETAINED PURSANT TO 19E US & TERRITORY & BAY	4900 - JURY DECISION HAS DETAINED PURSANT TO 19E US & TERRITORY & BAY
MAA0011000	CONCOURSE E EXTENSION - BUILDING 10M	4900 - CONCOURSE E EXTENSION - BUILDING	4900 - CONCOURSE E EXTENSION - BUILDING

The screenshot shows a PDF document cover page. At the top, it features the logo for "BWA CONSULTANTS" and "MARYLAND DEPARTMENT OF TRANSPORTATION MARYLAND AVIATION ADMINISTRATION". The title of the document is "CONCOURSE E EXTENSION - BUILDING FOR BAY THURGOOD MARSHALL AIRPORT". Below the title, it says "Volume 1 CONFORMED DOCUMENTS". The page includes a map of the airport area on the left and a detailed site plan on the right. At the bottom, there are logos for "URS" and "BWA CONSULTANTS".

Portal - Engineering Records

Shipping Cart View (1)

1 of 100 Pages First Prev Next Last

Project ID	Project Title	Task #	Project Title
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	30000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	40000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	50000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	60000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	70000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	80000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	90000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	100000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	110000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	120000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	130000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	140000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	150000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	160000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	170000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	180000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	190000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS
MAA-03-11-001	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	200000	CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS



Portal - Engineering Records

Shipping Cart View (1)

Download View Clear Print File List

File Name	Project #	Project Task #	File Size	File Type
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	30000	1102000	PDF (58.64 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	40000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	50000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	60000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	70000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	80000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	90000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	100000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	110000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	120000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	130000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	140000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	150000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	160000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	170000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	180000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	190000	800000	PDF (37.74 KB)
CONCRETE BRIDGE STRUCTURAL DESIGN APPROVALS	MAA-03-11-001	200000	800000	PDF (37.74 KB)

Additional Applications

- Chief Engineer's Report
- Pass through applications
 - ArcGIS Online
 - Multivista
- Design Standards



Chief Engineer's Projects Reports



Maryland ArcGIS Online
Provides access to State of Maryland ArcGIS Online accounts



Design Standards Manual
MAA's standards & procedures for the design of construction projects



AIRPortal v2.0

LOOKING AHEAD



Enhancements

- Upgrade the Flex Viewers to Javascript & HTML 5
 - Deploy mobile applications
- Bring all GIS data up to data
 - Implement process for GIS data to be delivered as part of design & construction projects
- Expand beyond the Engineering core to integrate documents and data from other offices
- B/CIM Standards



Enhancements

- Implement a spatial search for documents, particularly construction documents (Projects Viewer)
- Train current subject matter experts to be data stewards (ArcGIS Online)
- Integrate with Maximo to take advantage of spatial data (Asset Management System)
- Manageable approach to interior space mapping (Interior Space Manager)



Questions?

- Mr. Paul L. Shank, P.E.
 - pshank@bwiairport.com
- Mr. Ali Logmanni
 - alogmanni@bwiairport.com
- Ms. Julie Spangler, GISP
 - jspangler@jmttg.com

