



**CITY OF BANGOR – AIRPORT COMMITTEE**

Tuesday, November 15, 2016 @ 5:15PM

**Meeting Agenda**

1. Airport statistics – Sep & Oct (if available), 2016. (Materials presented at meeting.)
2. Airport's FAA approved 5-Year Capital Improvement Plan 2016-2021.



## MEMORANDUM

To: Airport Committee

From: Tony Caruso, Airport Director

CC: Cathy Conlow, City Manager

Re: BGR: FAA approved 5-YR CIP program 2016-2021

Date: November 9, 2016

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Attached for your review is a copy of Bangor International Airport's (BGR) FAA approved 5-year Capital Improvement Plan for 2016 through 2021. Each year Airport staff works with the FAA Northeast Region Representatives and the Maine State Department of Transportation to develop, review and update our 5-year capital improvement plan (CIP) program. These construction projects involve major enhancements to the airfield infrastructure, airport terminals, and airfield equipment and include projects that improve safety. CIP programs are plans of capital and major maintenance expenses to be incurred over a multi-year period, along with the proposed means for financing the expenditures. In order to remain eligible for, and obtain airport improvement plan (AIP) funds, an airport must have an approved 5-year airport capital improvement plan.

Airport staff will be available to provide a general overview of BGR's updated 5-Yr CIP program.



**BANGOR INTERNATIONAL AIRPORT  
AIP CAPITAL IMPROVEMENT PLAN  
2016-2021**



Updated 10/26/2016

Category	AIP #	PROJECT YEAR & DESCRIPTION	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Future
Other	70	2016 - Design & Construct Gate 3 Passenger Boarding Bridge (Apron Drive) and Terminal Gate Holding Area	\$1,959,688						
Other	69	2016 - Construct Domestic Terminal Improvements	\$1,833,332						
Taxi	71	2017 - Design and Construct LED Taxiway Lighting Project		\$270,000					
Taxi		2018 - Design and Reconstruct Taxiway A South (From Twy K intersection to Runway 33; Approx. 3,900 LF & Light Bar Rehab.) <i>*Full Depth Reconstruction</i>			\$9,600,000				
Taxi		2019 - Design and Construct Rehabilitate Taxiway A North (Approx. 800 LF & Light Bar Rehab.) <i>*Mill and Overlay</i>				\$1,400,000			
Taxi		2020 - Design and Construct Rehabilitate Taxiway A From Taxiway M to North Hold Apron (Approx. 3,075 LF) <i>*Mill and Overlay</i>					\$3,000,000		
Taxi		2021 - Taxiway N, Taxilane Y and utilities: 600 Area Hangar Development						\$3,500,000	
<b>FUTURE PROJECTS</b>									
Apron		Design & Construct ASR Mitigation Phase 3							\$1,000,000
Apron		Design & Reconstruct Terminal Gates 4 and 5 Hardstand							\$1,570,000
Apron		Design and Reconstruct GA Apron Phase 2							\$2,930,000
Taxi		Design & Reconstruct X & Y Shoulders **							\$1,575,000
Heli		Design & Reconstruct Helipad**							\$530,000
Taxi		Design and Construct Rehabilitate Taxiway L - In current Location							\$1,174,000
Other		Design and Construct Deicing Improvements							\$1,060,000
Other		Design & Construct Minor Airfield Drainage Improvements Identified in 2013 Video Inspection							TBD
Other		Design & Reconstruct Runway 15 Blast Pad (200' x 200')							\$228,250
Other		Obstruction Removal (Trees)							TBD
Runway		2024 - Rehabilitate Runway 15-33 (mill, pave, and mark 11,440' x 200')							\$6,000,000
Total Eligible for AIP Funds			\$3,793,020	\$270,000	\$9,600,000	\$1,400,000	\$3,000,000	\$3,500,000	
Federal Funds (90%)			\$3,413,718	\$243,000	\$8,640,000	\$1,260,000	\$2,700,000	\$3,150,000	<-- FAA
State Funds (5%)			\$189,651	\$13,500	\$480,000	\$70,000	\$150,000	\$175,000	<-- State
City Funds (5%)			\$189,651	\$13,500	\$480,000	\$70,000	\$150,000	\$175,000	<-- Local
<b>TOTAL</b>			<b>\$3,793,020</b>	<b>\$270,000</b>	<b>\$9,600,000</b>	<b>\$1,400,000</b>	<b>\$3,000,000</b>	<b>\$3,500,000</b>	

Estimated FY Entitlement Funding:	\$2,350,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000
Other Federal Funding:			\$4,000,000	<i>----FY2018 discretionary funds</i>		
Carry Over from Previous Years:	\$1,081,105	\$96,827	\$2,253,827	\$13,827	\$1,153,827	\$853,827
Estimated Total Federal Funding:	\$3,431,105	\$2,496,827	\$8,653,827	\$2,413,827	\$3,553,827	\$3,253,827
Total FY Project Cost (Federal Funds Only)	\$3,413,718	\$243,000	\$8,640,000	\$1,260,000	\$2,700,000	\$3,150,000
Estimated Federal Funding Variance	\$17,387	\$2,253,827	\$13,827	\$1,153,827	\$853,827	\$103,827

**Open AIP's**

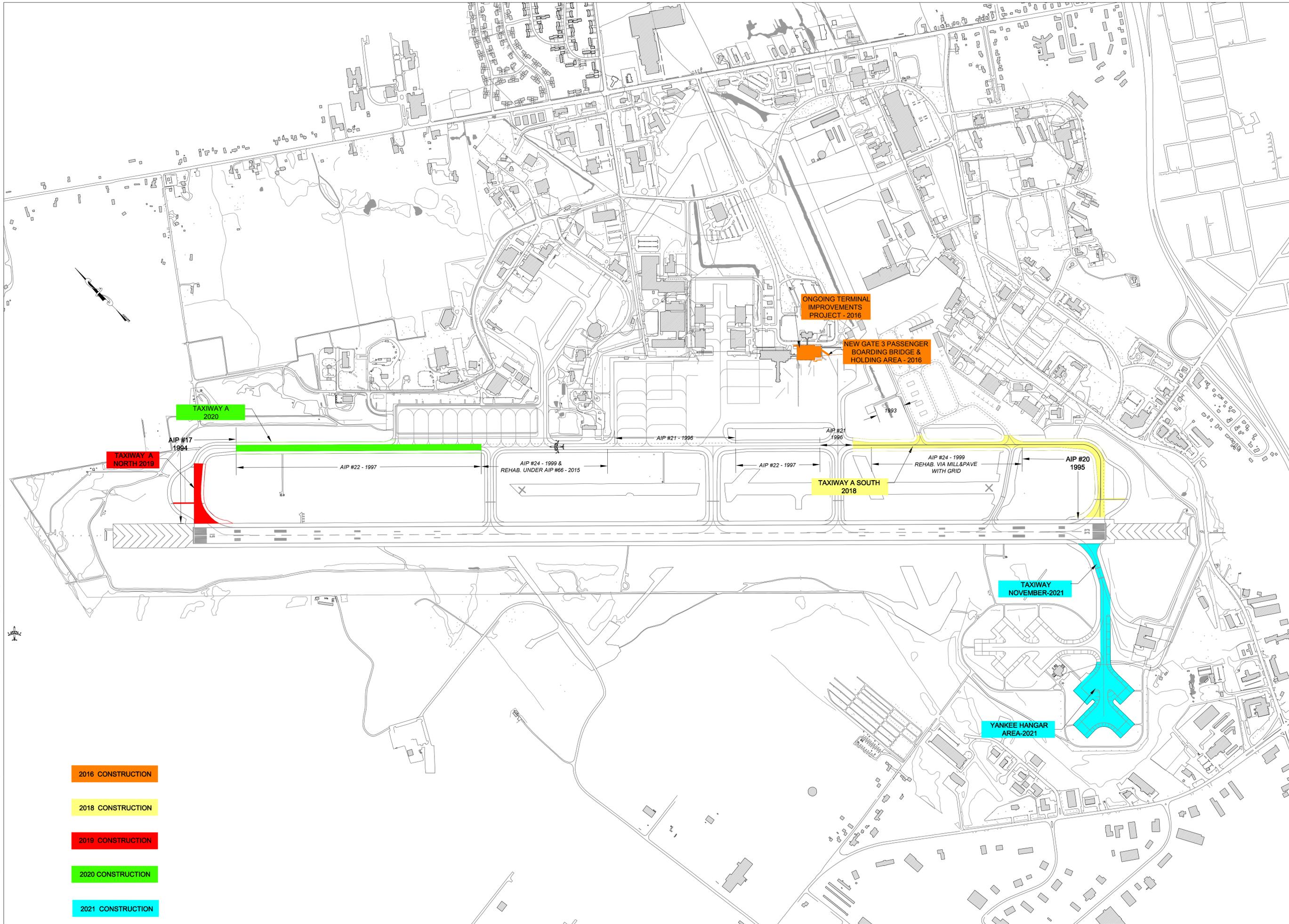
- 70 2016 Gate 3 Passenger Boarding Bridge and Holding Area
- 69 2016 Domestic Terminal Improvements
- 68 2015 Domestic Terminal Improvements
- 67 2015 Construct: Trench Drain ASR Mitigation Phase 2 & South GA Apron Entrance
- 66 2015 Construct: TWY A Ctr, TWY N Shoulders, & Dock Area
- 65 2014 PA System
- 63 2014 Multiple Taxiway Apron Designs
- 58 2013 Canal Fill - Estimated Close Winter 2016

estimated underrun of \$100-\$120K

**Recently Closed AIP's and approximate over run/under run (Federal Share Only)**

- 62 Design and Construct New RWIS closed Jan. 2016 with underrun of \$52,052
- 61 Design and Construct Godfrey Boulevard closed Jan. 2016 with underrun of \$23,086
- 60 Airfield Drainage Video Inspection closed Jan. 2016 with underrun of \$80,566
- 59 TD & RGL Replacement closed Jan. 2016 with underrun of \$63,063

Edwards & Kelcey - P:\Airports\Client General\Bangor\CIP Update\FY2017-2021\CIP Projects 2017-2021.dwg [Layout1] October 26, 2016 - 3:03pm [rhomiak]



- 2016 CONSTRUCTION
- 2018 CONSTRUCTION
- 2019 CONSTRUCTION
- 2020 CONSTRUCTION
- 2021 CONSTRUCTION

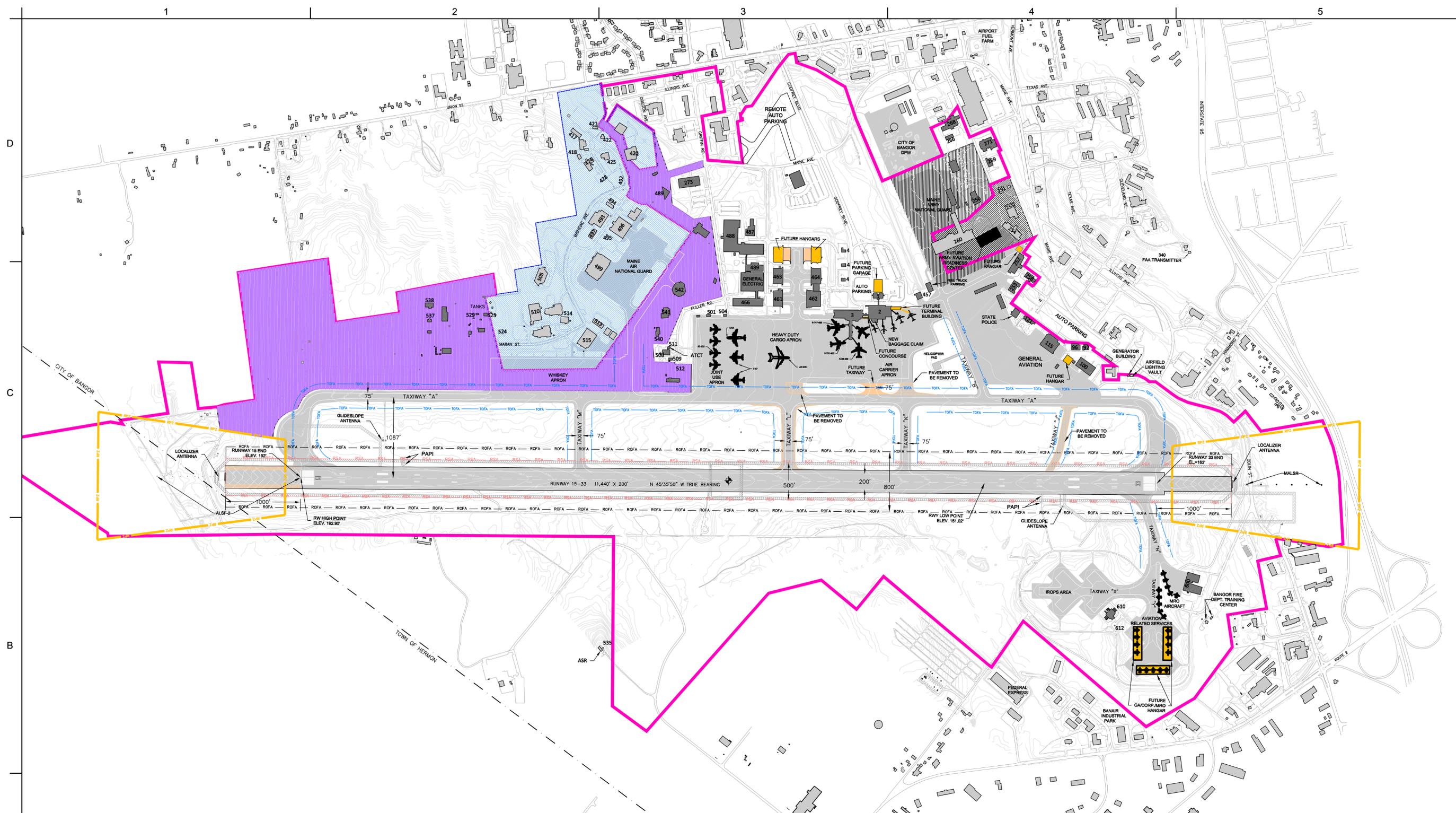
PROJECT DESIGNER:  
**JACOBS**  
 2 Executive Park Drive, Suite 205  
 Bedford, NH 03110  
 (603) 666-7181  
 FAX (603) 666-7185

SCALE: 1" = 500'  
 DATE: OCT. 2016  
 DESIGNED BY: JRH  
 DRAWN BY: JRH  
 CHECKED BY:  
 APPROVED:

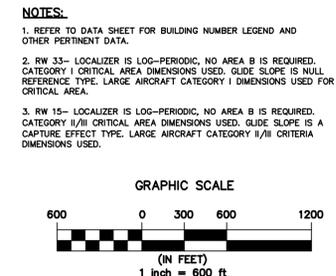
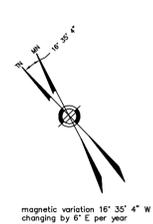
BANGOR INTERNATIONAL AIRPORT  
 BANGOR, MAINE  
 CIP PROJECTS  
 2016 - 2021 C.I.P. PROJECTS  
 PREPARED OCT. 2016

REV. NO.	DATE	DESCRIPTION	BY

PROJ. NO.:  
 DRAWING NO.:  
**1**



LEGEND	
	AIRPORT PROPERTY LINE
	ROADS AND INTERSTATES
	OFF-AIRPORT BUILDING
	ON-AIRPORT BUILDING
	RUNWAY PROTECTION ZONES
	CITY AND TOWN BOUNDARY
	AIRPORT REFERENCE POINT
	RUNWAY OBJECT FREE AREA
	RUNWAY SAFETY AREA
	TAXIWAY OBJECT FREE AREA
	EDGE OF PAVEMENT
	CONTOUR LINES (2' INTERVAL)
	PROPOSED PAVEMENT
	PROPOSED HANGARS
	TO BE REMOVED
	GLIDE SLOPE CRITICAL AREA
	LOCALIZER CRITICAL AREA
	ME AIR NATIONAL GUARD—OWNED
	ME AIR NATIONAL GUARD—LEASE
	ME ARMY NATIONAL GUARD—OWNED
	ME ARMY NATIONAL GUARD—LEASE
	ME ARMY NATIONAL GUARD—FUTURE BUILDING



ULTIMATE AIRPORT  
LAYOUT PLAN

NO.	DESCRIPTION	DATE	BY
1	ADD REMOTE AUTO PARKING	12/21/15	JRH

Designed by:	HHM
Drawn by:	KLH
Reviewed by:	HHM
Submitted by:	JRH
Date:	12/21/2015
Design file no.:	HHM
Drawing code:	HHM
File name:	Doc 2015
Plot name:	11/2015
Plot scale:	1"=600'

BANGOR INTERNATIONAL AIRPORT  
BANGOR  
MAINE

JACOBS  
TWO EXECUTIVE PARK DRIVE  
BEDFORD, NH 03110

BGR  
BANGOR  
INTERNATIONAL AIRPORT

Sheet  
reference  
number:  
**4**