

# NORTHERN AROOSTOOK REGIONAL AIRPORT

## FRENCHVILLE, ME

### AIRPORT LAYOUT PLAN SET



VICINITY MAP



LOCATION MAP



#### AIRPORT OWNERSHIP AND MANAGEMENT

The Northern Aroostook Regional Airport is owned by the Northern Aroostook Regional Airport Authority and operated under the management of the Northern Aroostook Regional Airport Authority, Airport Manager, David Fernald SR.

NORTHERN AROOSTOOK REGIONAL  
AIRPORT AUTHORITY, 74 AIRPORT AVE.  
FRENCHVILLE, ME 04745

#### PLANS PREPARED BY:

**Hoyle, Tanner & Associates, Inc.**  
150 DOW STREET | MANCHESTER, NH 03101  
(603) 669-5555, FAX: (603) 669-4168  
WEB PAGE: www.hoyletanner.com

**BRIDGHAM ENGINEERING & LAND SURVEYING Inc.**  
P.O. BOX 4146 - 499 MAIN STREET  
Presque Isle, Maine 04769-4146  
E-Mail: bill@bridghameng.com, TEL. (207) 769-8791

MaineDOT Approval	
This Airport Layout Plan Is Hereby Approved	
Signature: <i>MARY ANN HAYES</i>	Date: 11/21/18
Name: MARY ANN HAYES	
Title: AVIATION DIRECTOR	

Airport Sponsor Approval	
This Airport Layout Plan Is Hereby Approved	
Signature: <i>David Fernald</i>	Date: 10-22-2018
Name:	
Title:	

#### INDEX OF SHEETS

- 1 COVER SHEET
- 2 EXISTING AIRPORT CONDITIONS
- 3 ULTIMATE AIRPORT LAYOUT PLAN
- 4 TERMINAL AREA PLAN
- 5 INNER APPROACH PLAN RUNWAY 14
- 6 INNER APPROACH PLAN RUNWAY 32
- 7 AIRPORT AIRSPACE DRAWING
- 8 LAND USE DRAWING
- 9 EXHIBIT "A" AIRPORT PROPERTY INVENTORY MAP

FAA AIP# 3-23-0021-20-2017

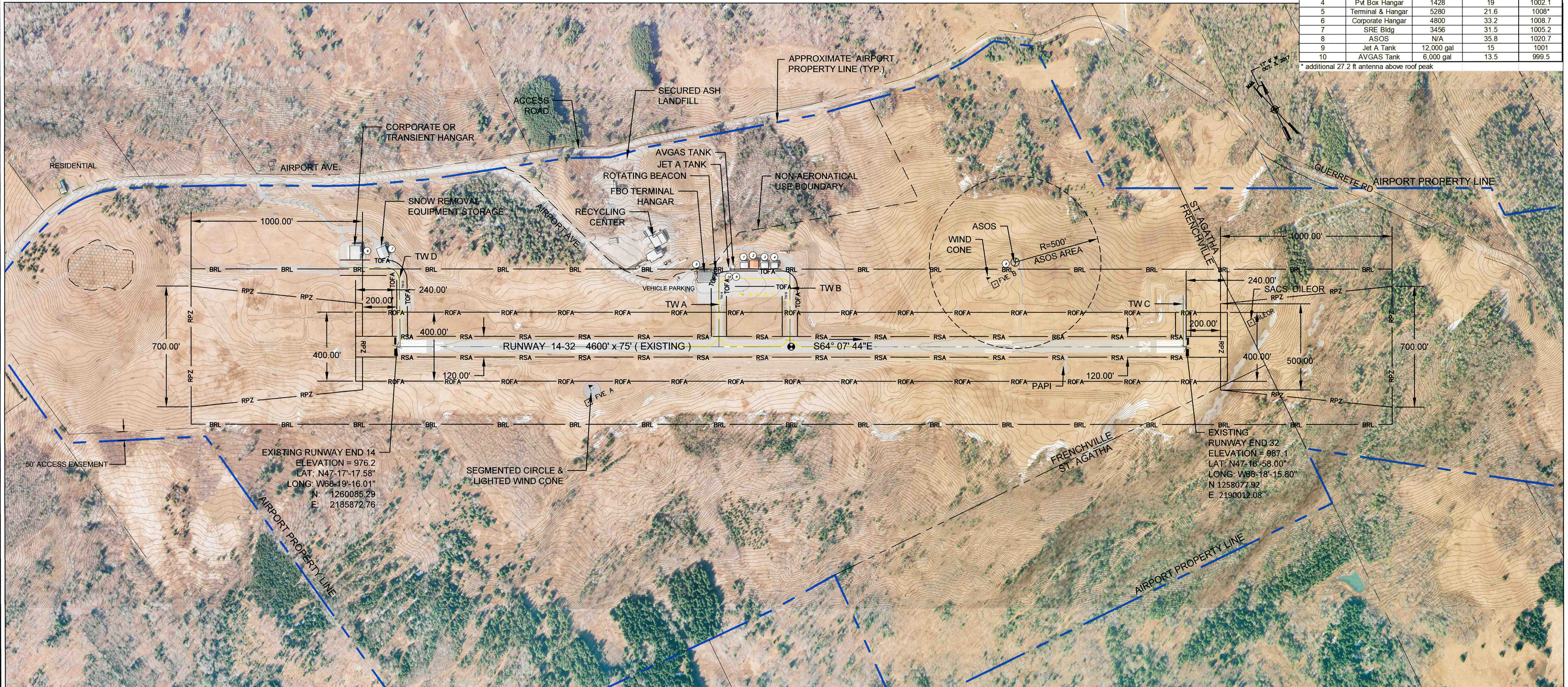
APRIL 2018

Drawing name: H:\30201\_Bridgham\_Plan\Draws\Contract\01\_PVE\_COPIES.dwg Oct 08, 2018 - 8:17am

Drawing name: H:\308201\Brighton FVE Master Plan\Drawings\Contract\02\_FVE\_EXISTING\_ALP.dwg Oct 08, 2018 8:34am

Structures, Buildings & Facilities				
Buildings	Description	Area sq ft	AGL Peak El.	MSL Peak El.
1	Pvt Box Hangar	1530	22.2	1008.5
2	Pvt Box Hangar	2200	22.3	1008.3
3	Pvt Box Hangar	1344	19.3	1003.2
4	Pvt Box Hangar	1428	19	1002.1
5	Terminal & Hangar	5280	21.6	1008*
6	Corporate Hangar	4800	33.2	1008.7
7	SRE Bldg	3456	31.5	1005.2
8	ASOS	N/A	35.8	1020.7
9	Jet A Tank	12,000 gal	15	1001
10	AVGAS Tank	6,000 gal	13.5	999.5

\* additional 27.2 ft antenna above roof peak

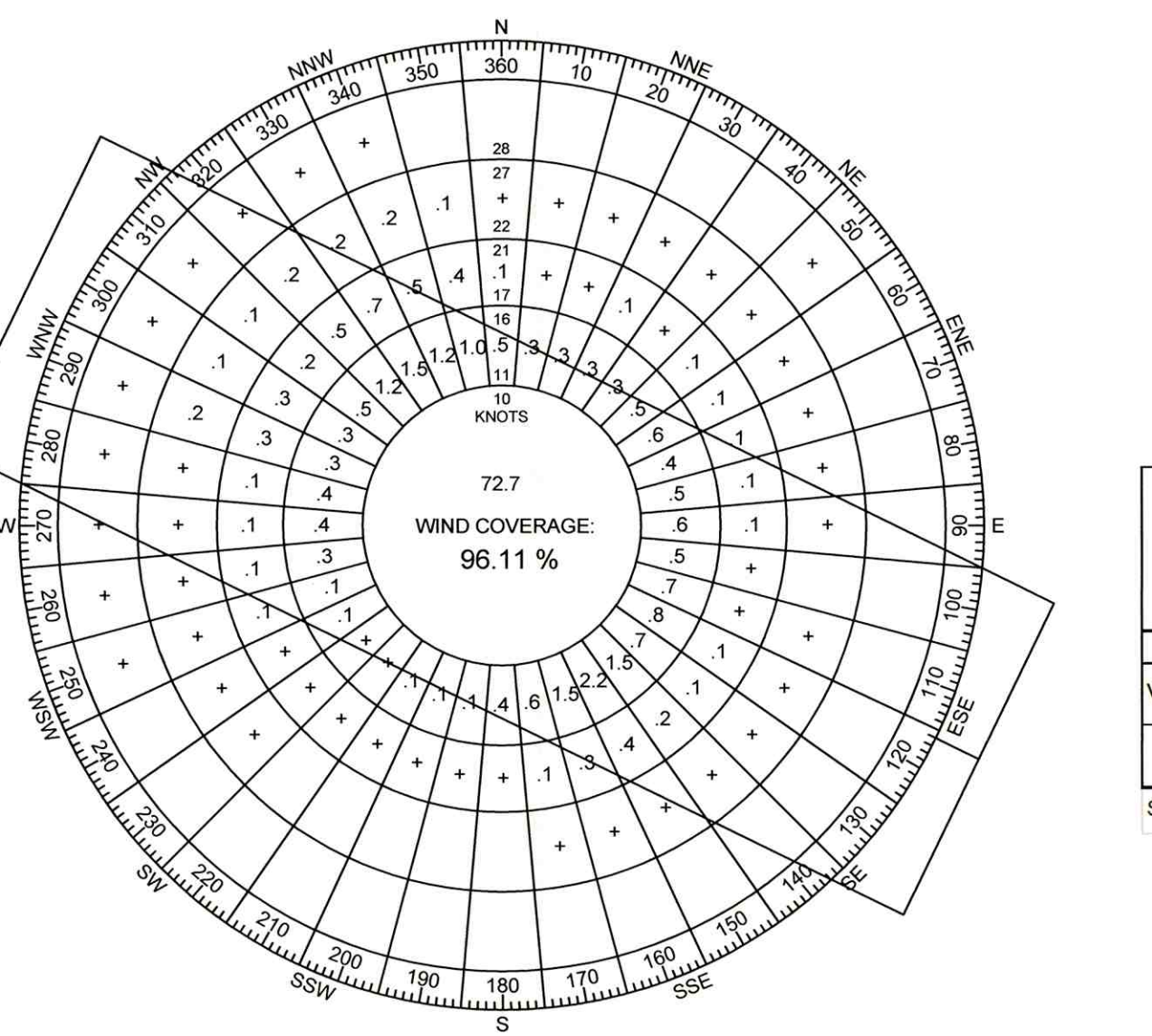
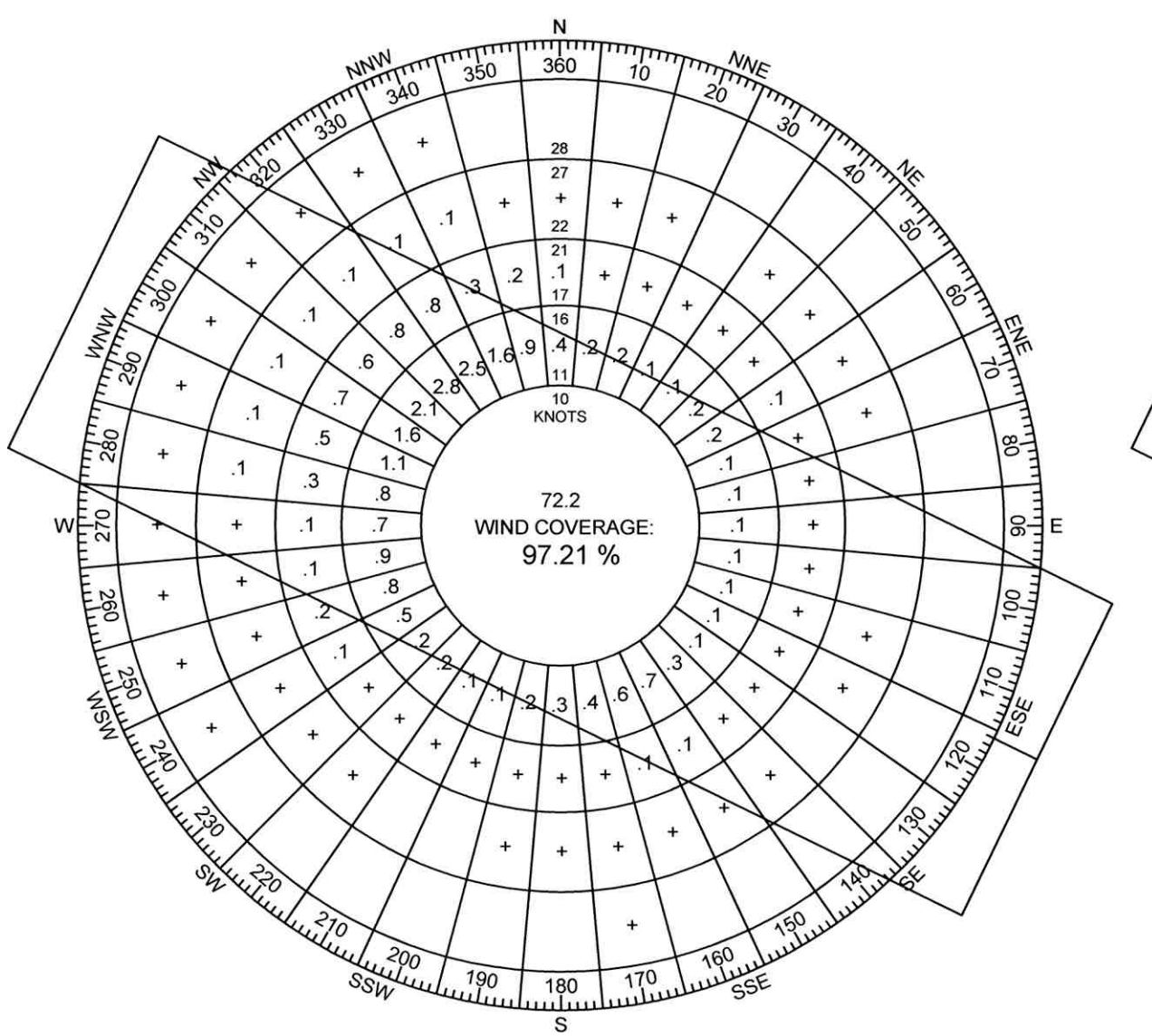
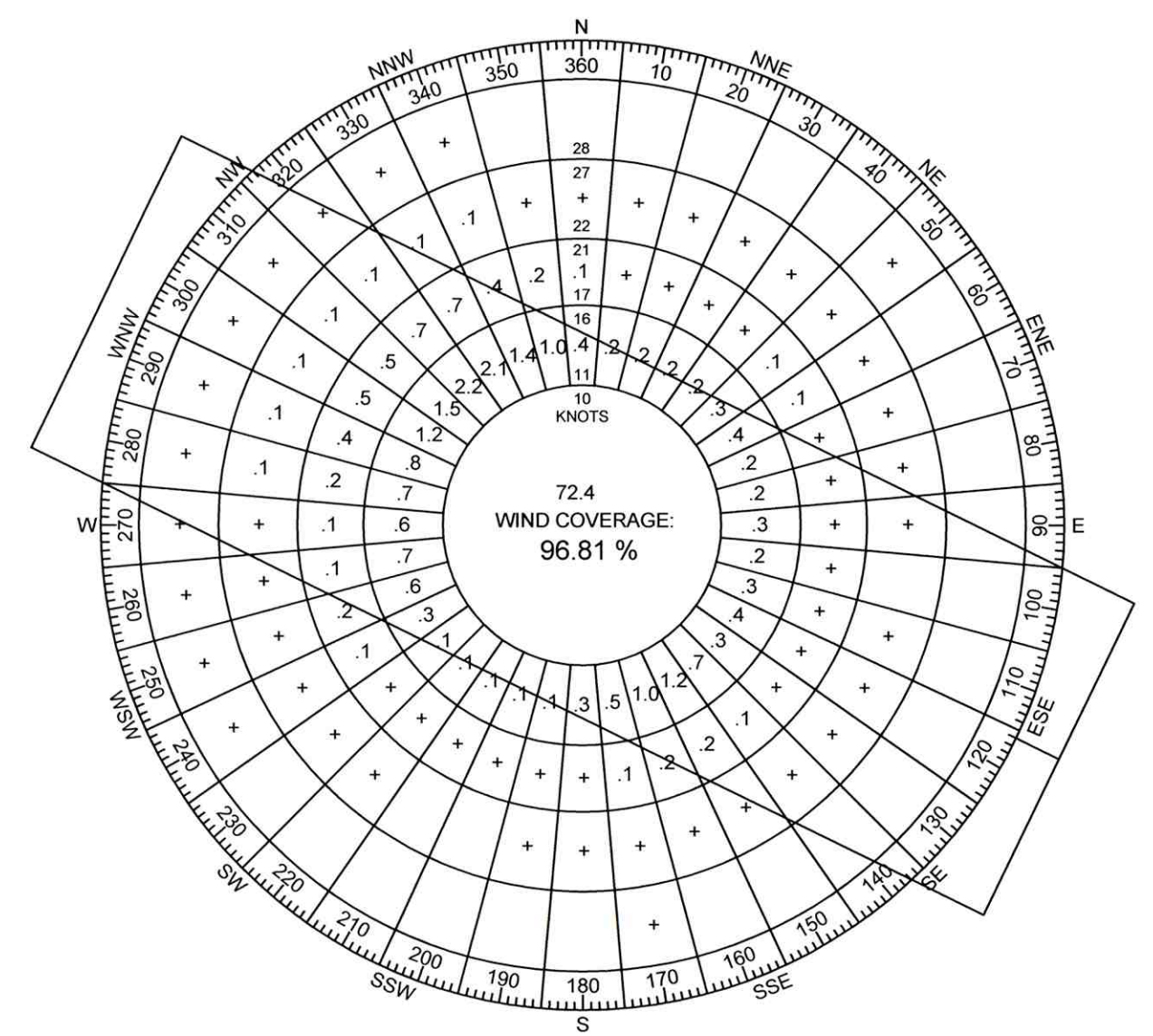


EXISTING RUNWAY END 14  
ELEVATION = 976.2  
LAT: N47-17-17.58"  
LONG: W68-19-16.01"  
N: 1260085.29  
E: 2185872.76

EXISTING RUNWAY END 32  
ELEVATION = 987.1  
LAT: N47-16-58.00"  
LONG: W68-18-15.80"  
N: 1258077.92  
E: 2190012.08

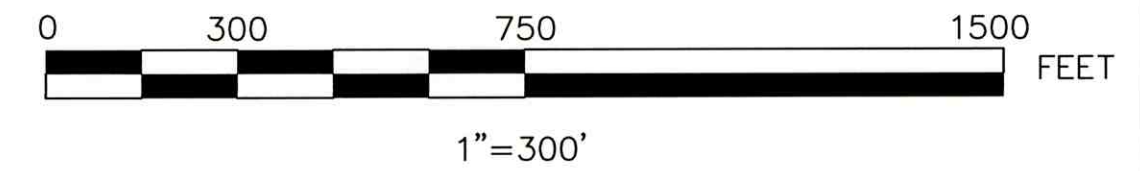
AIRFIELD CONTROL POINTS - NAD83 / MAINE CS2000 EAST - FEET				
CONTROL POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
AB2651	983.5	1258038.223	2190413.856	DILEOR
FVE A	983.341	1259306.556	2186736.063	MaineDOT
FVE B	992.957	1258889.51	2189168.712	MaineDOT

LEGEND	
EXISTING	DESCRIPTION
(Symbol)	AIRPORT REFERENCE POINT
(Symbol)	PROPERTY LINE
(Symbol)	RUNWAY VISIBILITY ZONE
(Symbol)	RUNWAY SAFETY AREA
(Symbol)	RUNWAY SAFETY AREA
(Symbol)	RUNWAY OBJECT FREE AREA
(Symbol)	RUNWAY OBJECT FREE ZONE
(Symbol)	TAXIWAY OBJECT FREE AREA
(Symbol)	RUNWAY PROTECTION ZONES
(Symbol)	CONTOUR LINES
(Symbol)	FENCE
(Symbol)	THRESHOLD LIGHTS
(Symbol)	4 LIGHT PAPI
(Symbol)	RUNWAY END IDENTIFIER LIGHT (REIL)
(Symbol)	BUILDING IDENTIFICATION
(Symbol)	WIND CONE
(Symbol)	ASOS
(Symbol)	GROUND PENETRATION 40:1 DEPARTURE



Meteorological Condition	Observations	Runway	Wind Coverage Crosswind Component (Knots)	
			10.5 kts B-I RDC	13 kts B-II RDC
All-Weather	142,765		92.70%	96.81%
Visual Meteorological Conditions (VMC)	92,171	14/32	93.34%	97.21%
Instrument Meteorological Conditions (IMC)	51,490		91.57%	96.11%

Source 728083 NRN AROOSTOOK REGIONAL APT ANNUAL PERIOD RECORD 2007-2016



ENGINEER'S SEAL

PROJECT DESIGNER  
**Hoyle Tanner**  
ASSOCIATES, INC.

BRIDGHAM ENGINEERING & LAND SURVEYING INC.  
P.O. BOX 4146 - 499 MAIN STREET  
Presque Isle, ME 04969-4146 TEL: (207) 769-8791  
E-Mail: bill@brighameng.com TEL: (207) 769-8791

NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY 74 AIRPORT AVE. FRENCHVILLE, ME 04745

NORTHERN AROOSTOOK REGIONAL AIRPORT MASTER PLAN UPDATE

EXISTING AIRPORT LAYOUT DRAWING

SCALE: 1"=300'

DATE: APRIL 2018

REV. NO.	DATE	DESCRIPTION

HTA PROJ. No.: 308201

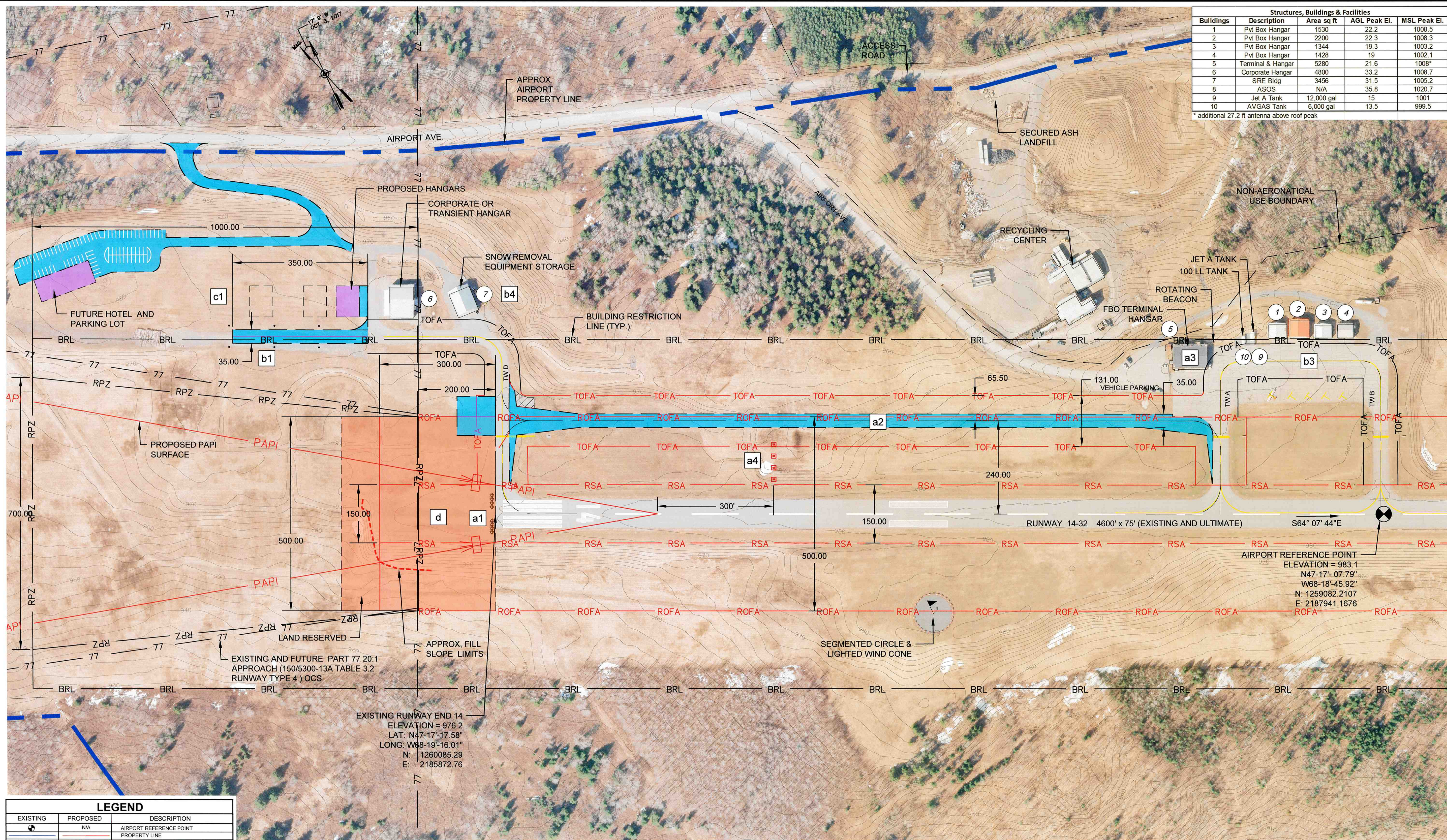
AIP No.: 3-23-0021-20-2017

DRAWING NO. **2**

SHEET 2 OF 9



Drawing name: H:\308201\Brighton FVE Master Plan\Drawings\Contract\04\_FVE\_TERMINAL-AREA.dwg Oct 08, 2018 - 8:53am



Structures, Buildings & Facilities				
Buildings	Description	Area sq ft	AGL Peak El.	MSL Peak El.
1	Pvt Box Hangar	1530	22.2	1008.5
2	Pvt Box Hangar	2200	22.3	1008.3
3	Pvt Box Hangar	1344	19.3	1003.2
4	Pvt Box Hangar	1428	19	1002.1
5	Terminal & Hangar	5280	21.6	1008*
6	Corporate Hangar	4800	33.2	1008.7
7	SRE Bldg	3456	31.5	1005.2
8	ASOS	N/A	35.8	1020.7
9	Jet A Tank	12,000 gal	15	1001
10	AVGAS Tank	6,000 gal	13.5	999.5

\* additional 27.2 ft antenna above roof peak

**ENGINEER'S SEAL**

PROJECT DESIGNER  
**Hoyle Tanner**  
 BRIDGEMAN ENGINEERING & LAND SURVEYING INC.  
 150 DOW STREET WINDHAM, NH 03091  
 P.O. BOX 4146 - 499 MAIN STREET  
 Rescue Isle, Maine 04769-4146  
 E-mail: info@hoyletanner.com, TEL: (207) 769-8791

NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY  
 AIRPORT AVE. FRENCHVILLE, ME 04745

DESIGNED BY: ERM  
 DRAWN BY: JLC  
 CHECKED BY: WAG

NORTHERN AROOSTOOK REGIONAL AIRPORT  
 MASTER PLAN UPDATE

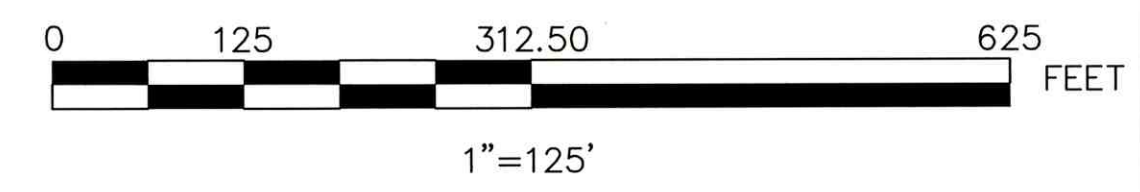
**TERMINAL AREA DRAWING**

SCALE: 1"=125'  
 DATE: APRIL 2018

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
	N/A	AIRPORT REFERENCE POINT
		PROPERTY LINE
RVZ	RVZ	RUNWAY VISIBILITY ZONE
RSA	RSA	RUNWAY SAFETY AREA
ROFA	ROFA	RUNWAY OBJECT FREE AREA
ROFZ	ROFZ	RUNWAY OBJECT FREE ZONE
RPZ	RPZ	RUNWAY PROTECTION ZONE
TSA	TSA	TAXIWAY SAFETY AREA
TOFA	TOFA	TAXIWAY OBJECT FREE AREA
	N/A	CONTOUR LINES
		PAVED AIRFIELD SURFACES
	N/A	8' FENCE
		ON-AIRPORT BUILDINGS
	N/A	THRESHOLD LIGHTS
		4 LIGHT PAPI
		RUNWAY END IDENTIFIER LIGHT (REIL)
	N/A	WIND SOCK
		PAVEMENT REMOVED
	N/A	ASOS
		BUILDING IDENTIFICATION
		GROUND PENETRATION 40:1 DEPARTURE

Proposed Development		
Legend	Timeframe	Proposed Development
a1	0-5	RWY 32 RSA Improvements to B-II standards and new FAA REILS on 14 and 32
a2	0-5	Partial Parallel Taxiway with Holding Bay - Design and Construct
a3	0-5	Rehabilitate Terminal Hangar Door *
a4	0-5	PAPI Installation RWY 14
b1	5-10	Taxiway D Extension Phase 2
b2	5-10	Airport Signage Improvements - Off Airport
b3	5-10	Terminal Apron Reconstruction
b4	5-10	Replace SRE Equipment
c1	10-20	Additional Itinerent Hangar Development
c2	10-20	Airport Master Plan Update
c3	10-20	Runway Reconstruction
d	20+	Land reserved Rwy 14 400 Foot Extension when justified

\*(AIP Handbook O-3f.)



REVISIONS	
REV. NO.	DESCRIPTION

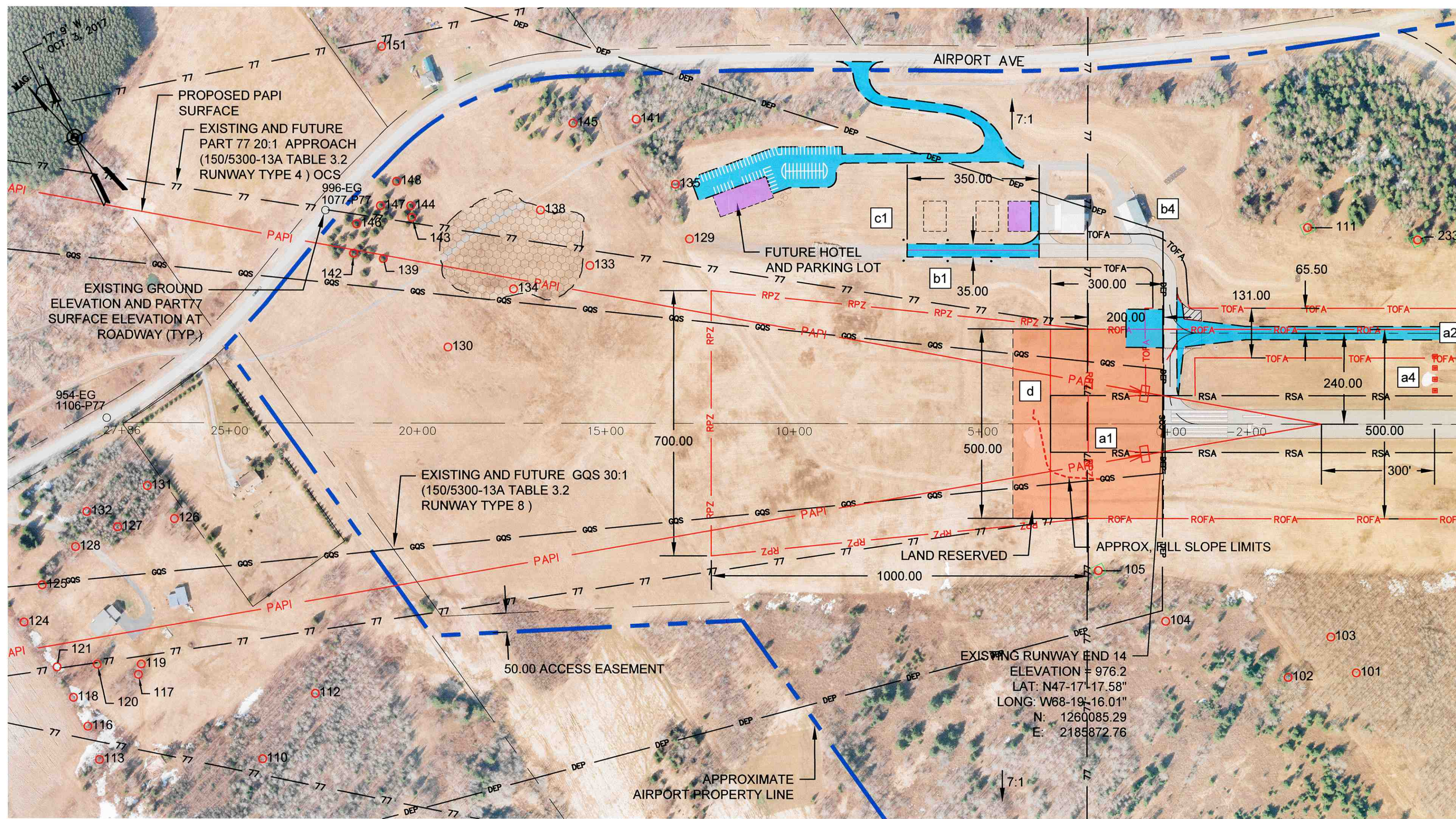
HTA PROJ. No.: 308201

AIP No.: 3-23-0021-20-2017

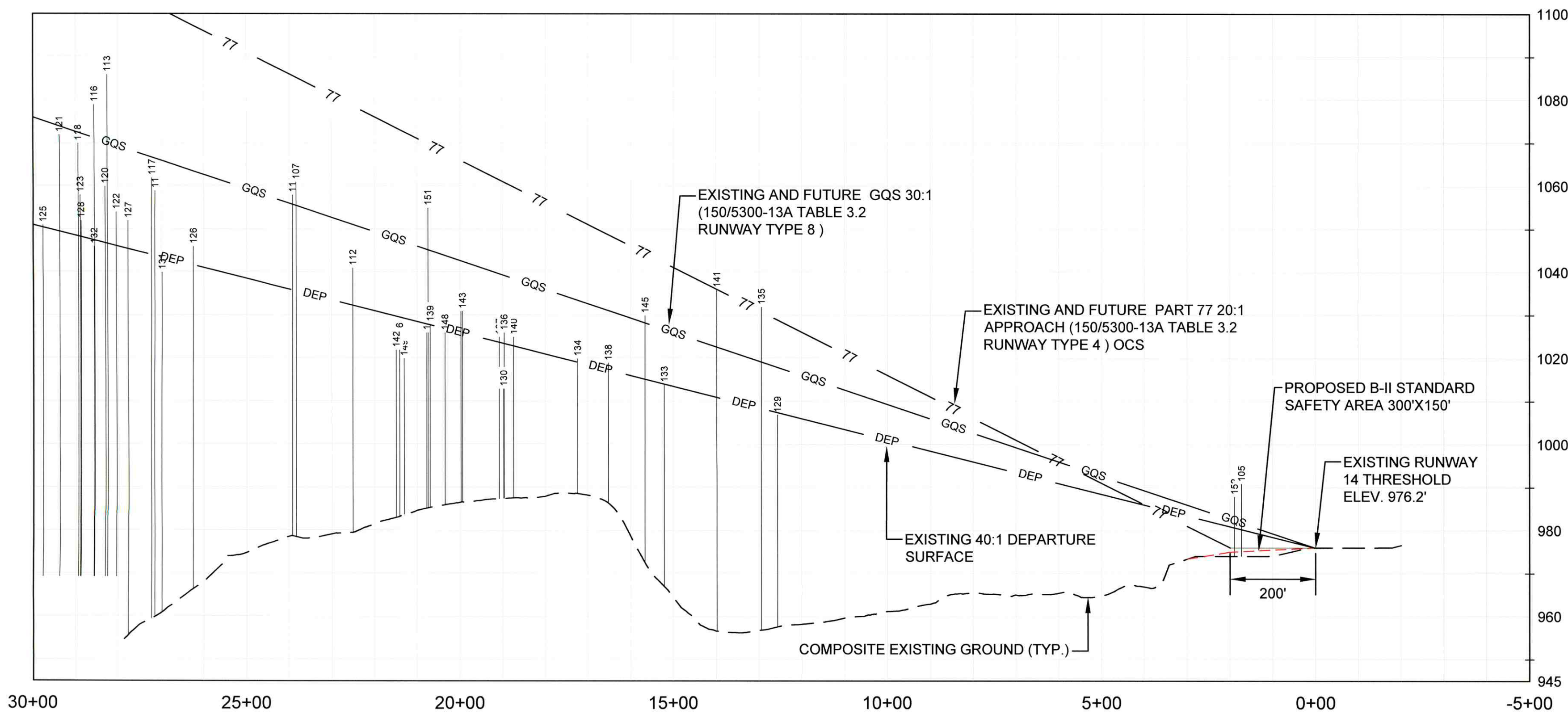
DRAWING NO. **4**

SHEET 4 OF 9

Drawing name: H:\308201\Brighton FVE Master Plan\Drawings\Contract\05\_FVE\_INNER\_APPR-RWT-14.dwg Oct 08, 2018 - 8:54am



RUNWAY 14 END PROFILE



Proposed Development		
Legend	Timeframe	Proposed Development
a1	0-5	RWY 32 RSA Improvements to B-II standards and new FAA REILS on 14 and 32
a2	0-5	Partial Parallel Taxiway with Holding Bay - Design and Construct
a3	0-5	Rehabilitate Terminal Hangar Door *
a4	0-5	PAPI Installation RWY 14
b1	5-10	Taxiway D Extension Phase 2
b2	5-10	Airport Signage Improvements - Off Airport
b3	5-10	Terminal Apron Reconstruction
b4	5-10	Replace SRE Equipment
c1	10-20	Additional Itinerent Hangar Development
c2	10-20	Airport Master Plan Update
c3	10-20	Runway Reconstruction
d	20+	Land reserved Rwy 14 400 Foot Extension when justified

\* (AIP Handbook O-3f)

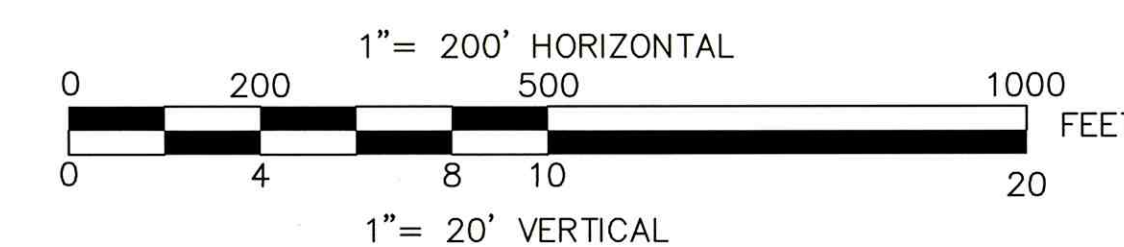
NOTES:

- OBSTRUCTION DATA SOURCED FROM FAA DATABASES BASED ON A SURVEY PERFORMED ON MARCH 05, 2010. NGS 2010 FVE ANALPV 3603
- HORIZONTAL DATUM IS BASED ON THE MAINE STATE PLANE NAD83 / MAINE CS2000 EAST US FOOT. VERTICAL DATUM IS BASED ON NAVD 88.

LEGEND

- ▲ CURRENT PENETRATION TO PART 77 SURFACE/SINGLE TREE CLEARING
- OBJECT WITHIN 10 FT OF PART 77 SURFACE
- 101 POINTS FROM NGS 2010 FVE ANALPV 3603
- FAA POINT DATABASE

EXISTING	DESCRIPTION
⊕	AIRPORT REFERENCE POINT
---	PROPERTY LINE
---	RUNWAY VISIBILITY ZONE
---	RSA
---	RUNWAY SAFETY AREA
---	ROFA
---	RUNWAY OBJECT FREE AREA
---	ROFZ
---	RUNWAY OBJECT FREE ZONE
---	TOFA
---	TAXIWAY OBJECT FREE AREA
---	RPZ
---	RUNWAY PROTECTION ZONES
---	CONTOUR LINES
---	FENCE
⊕	THRESHOLD LIGHTS
⊕	4 LIGHT PAPI
⊕	RUNWAY END IDENTIFIER LIGHT (REIL)
⊕	BUILDING IDENTIFICATION
⊕	WIND CONE
⊕	ASOS
⊕	GROUND PENETRATION 40:1 DEPARTURE



ENGINEER'S SEAL

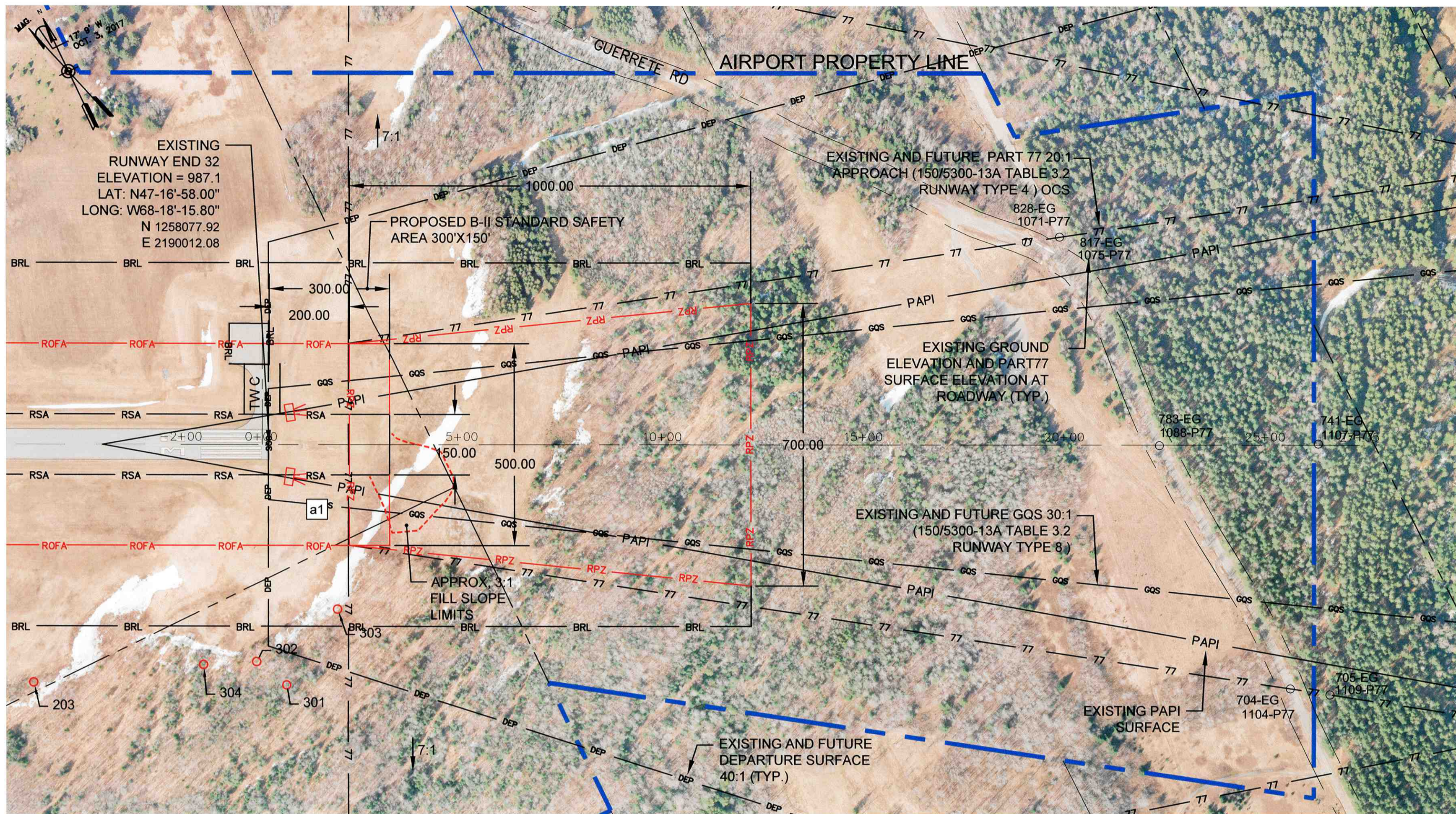
PROJECT DESIGNER  
**Hoyle Tanner**  
 ASSOCIATES, INC.  
 BRIDGHAM ENGINEERING & LAND SURVEYING, INC.  
 150 DOW STREET, MANCHESTER, NH 03101  
 P.O. BOX 4146, 499 MAIN STREET  
 FRENCHVILLE, ME 04745  
 E-MAIL: bill@bringham.com, TEL: (207) 769-8791  
 CHECKED BY: WAG  
 DRAWN BY: ZJM  
 DESIGNED BY: ERM

NORTHERN ARROSTOOK REGIONAL AIRPORT AUTHORITY, 74 AIRPORT AVE., FRENCHVILLE, ME 04745  
**Northern Arrostook Regional Airport**  
 Connecting "The Valley" to the World

NORTHERN ARROSTOOK REGIONAL AIRPORT MASTER PLAN UPDATE  
**INNER APPROACH PLAN RUNWAY 14**  
 SCALE: 1"=200'  
 DATE: APRIL 2018

REV. NO.	DATE	DESCRIPTION	BY

HTA PROJ. No.: 308201  
 AIP No.: 3-23-0021-20-2017  
 DRAWING NO.  
**5**  
 SHEET 5 OF 9



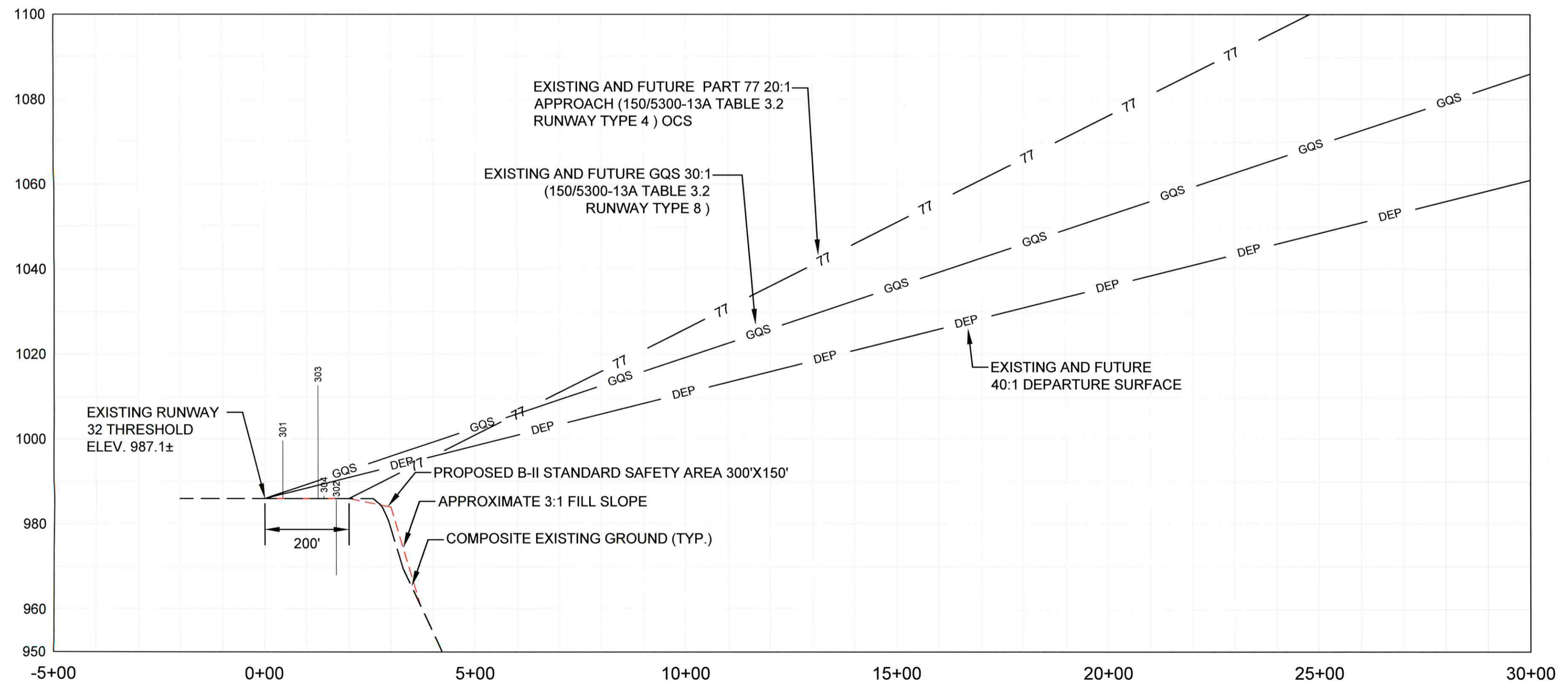
Proposed Development		
Legend	Timeframe	Proposed Development
a1	0-5	RWY 32 RSA Improvements to B-II standards and new FAA REILS on 14 and 32
a2	0-5	Partial Parallel Taxiway with Holding Bay - Design and Construct
a3	0-5	Rehabilitate Terminal Hangar Door *
a4	0-5	PAPI Installation RWY 14
b1	5-10	Taxiway D Extension Phase 2
b2	5-10	Airport Signage Improvements - Off Airport
b3	5-10	Terminal Apron Reconstruction
b4	5-10	Replace SRE Equipment
c1	10-20	Additional Linerent Hangar Development
c2	10-20	Airport Master Plan Update
c3	10-20	Runway Reconstruction
d	20+	Land reserved Rwy 14 400 Foot Extension when justified

\*(AIP Handbook 0-3f.)

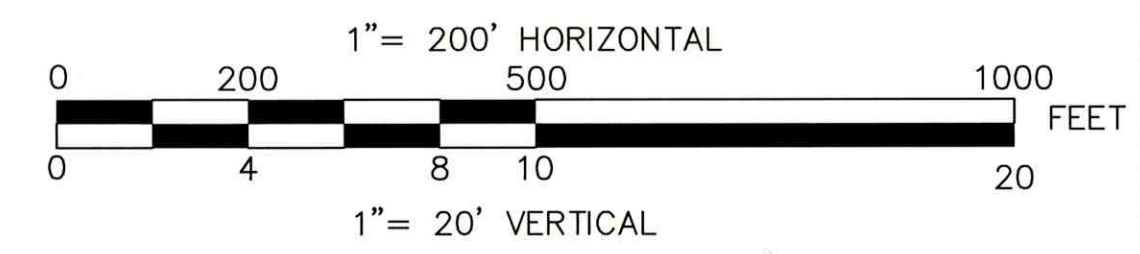
- NOTES:**
- OBSTRUCTION DATA SOURCED FROM FAA DATABASES BASED ON A SURVEY PERFORMED ON MARCH 05, 2010. NGS 2010 FVE ANALPV 3603
  - HORIZONTAL DATUM IS BASED ON THE MAINE STATE PLANE NAD83 / MAINE CS2000 EAST US FOOT. VERTICAL DATUM IS BASED ON NAVD 88.

- LEGEND**
- ▲ CURRENT PENETRATION TO PART 77 SURFACE/SINGLE TREE CLEARING
  - OBJECT WITHIN 10 FT OF PART 77 SURFACE
  - 101 POINTS FROM NGS 2010 FVE ANALPV 3603
  - FAA POINT DATABASE

**RUNWAY 32 END PROFILE**



EXISTING	DESCRIPTION
○	AIRPORT REFERENCE POINT
---	PROPERTY LINE
---	RUNWAY VISIBILITY ZONE
---	RUNWAY SAFETY AREA
---	RUNWAY OBJECT FREE AREA
---	TAXIWAY OBJECT FREE AREA
---	RUNWAY PROTECTION ZONES
---	CONTOUR LINES
---	FENCE
○	THRESHOLD LIGHTS
○	4 LIGHT PAPI
○	RUNWAY END IDENTIFIER LIGHT (REIL)
○	BUILDING IDENTIFICATION
○	WIND CONE
○	ASOS
□	GROUND PENETRATION 40:1 DEPARTURE



ENGINEER'S SEAL

---

PROJECT DESIGNER  
**Hoyle Jamer**  
ASSOCIATES, INC.

BRIDGHAM ENGINEERING & LAND SURVEYING INC.  
P.O. BOX 4146  
499 MAIN STREET  
FRENCHVILLE, ME 04745  
E-Mail: bill@bridgmeag.com, TEL. (207) 769-8791

DESIGNED BY: ERM  
DRAWN BY: ZJM  
CHECKED BY: WAG

---

NORTHERN ARCOOSTOOK REGIONAL AIRPORT AUTHORITY, 74 AIRPORT AVE., FRENCHVILLE, ME 04745

**Northern Arcosstook Regional Airport**  
Connecting "The Valley" to the World

---

NORTHERN ARCOOSTOOK REGIONAL AIRPORT MASTER PLAN UPDATE

**INNER APPROACH PLAN  
RUNWAY 32**

SCALE: 1"=200'

DATE: APRIL 2018

---

REV.	DATE	DESCRIPTION	BY

HITA PROJ. No.: 308201

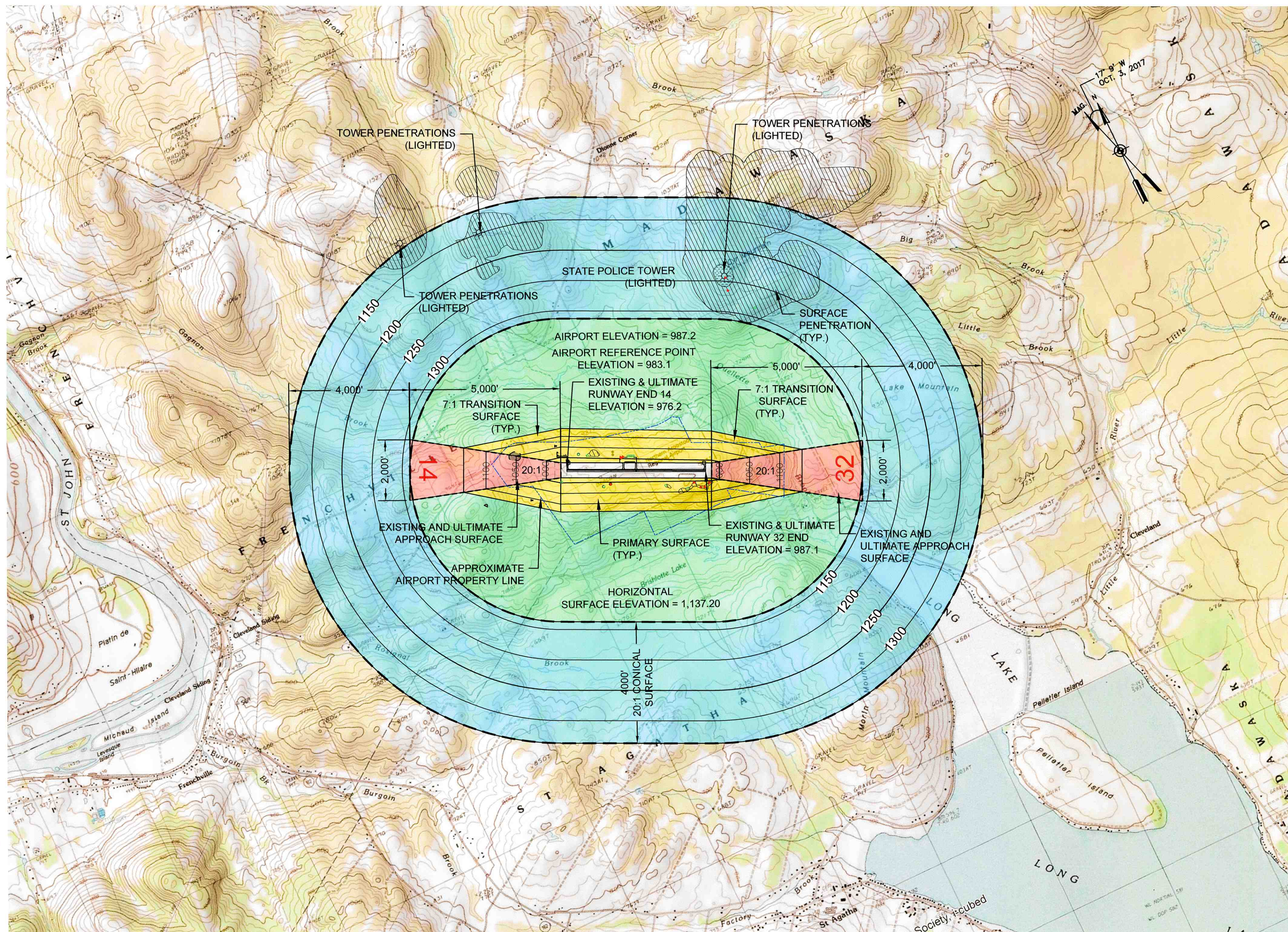
AIP No.: 3-23-0021-20-2017

DRAWING NO.  
**6**

SHEET 6 OF 9

Drawing name: H:\308201\_Bridham FVE Master Plan\Drawings\Contract\06\_FVE\_INNER-APPR-RWT-32.dwg Oct 08, 2018 8:57am

Drawing name: H:\308201\Brighton FVE Master Plan\Drawings\Contract\07\_FVE\_AIRPORT\_AIRSPACE.dwg Oct 08, 2018 9:00am



ISOMETRIC VIEW OF SECTION

DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

- A - UTILITY RUNWAYS
- B - RUNWAYS LARGER THAN UTILITY
- C - VISIBILITY MINIMUMS GREATER THAN 3/4 MILES
- D - VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- E - PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

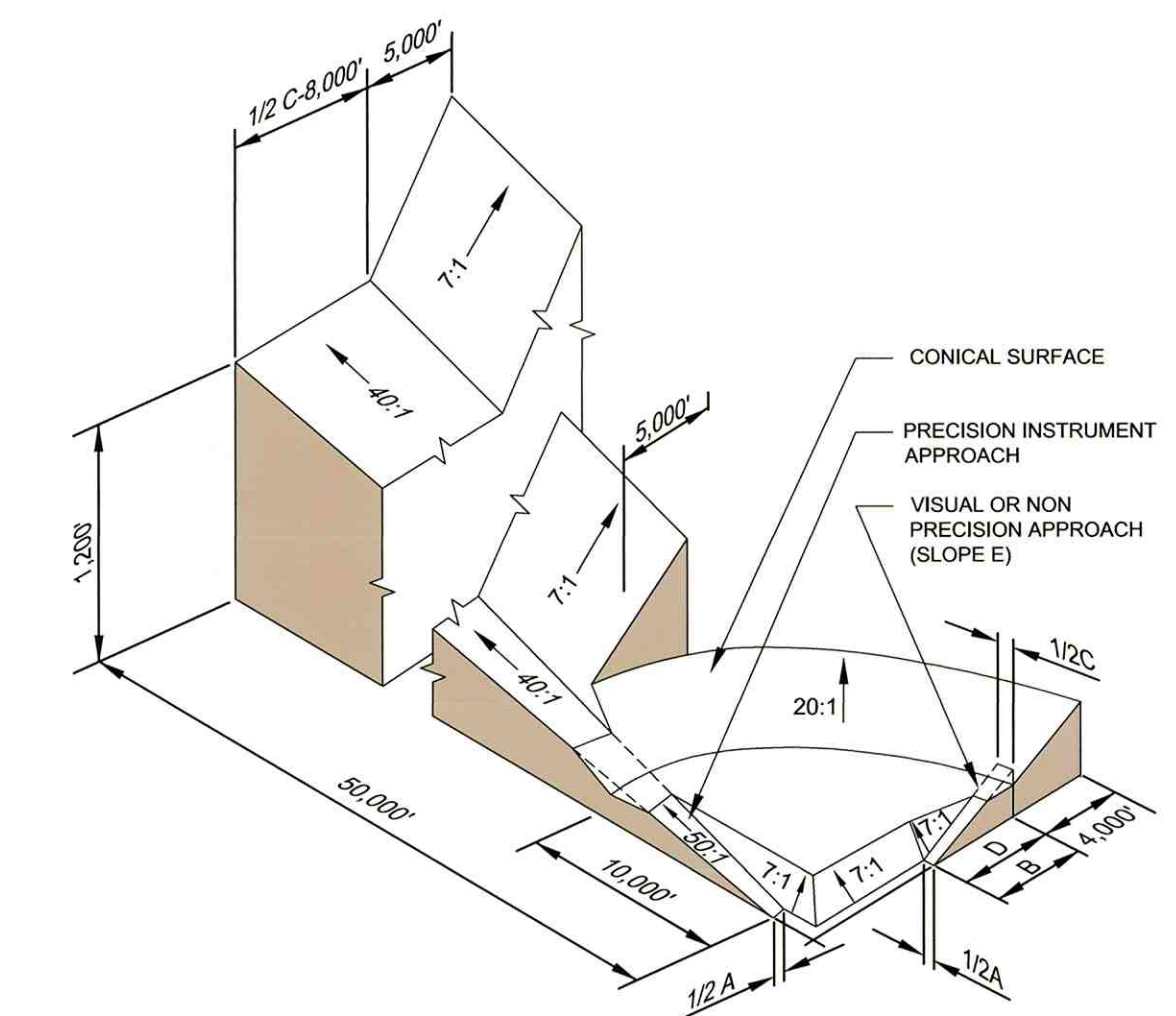


IMAGE SOURCE:  
 WORLD\_TOPO\_MAP - SOURCES: ESRI, HERE, DELORME, TOMTOM, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), SWISSTOPO, MAPMYINDIA, OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

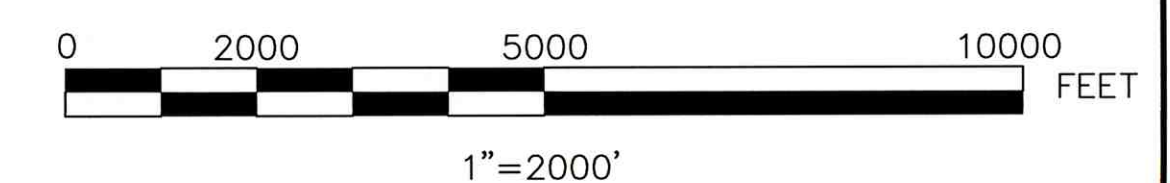
FEDERAL AVIATION REGULATIONS PART 77, STATES THAT A STRUCTURE IS PRESUMED TO HAVE A SUBSTANTIAL ADVERSE EFFECT UPON THE SAFE AND EFFICIENT USE OF NAVIGABLE AIRSPACE IF ITS HEIGHT EXCEEDS THE FOLLOWING STANDARDS:

1. A HEIGHT OF FIVE HUNDRED (500) FEET ABOVE GROUND LEVEL AT THE SITE OF THE OBJECT ANYWHERE IN THE STATE.
2. A HEIGHT THAT IS TWO HUNDRED (200) FEET ABOVE GROUND LEVEL OR ABOVE THE ESTABLISHED AIRPORT ELEVATION, WHICHEVER IS HIGHER, WITHIN THREE (3) NAUTICAL MILES OF THE ESTABLISHED REFERENCED POINT OF A PUBLIC-USE AIRPORT, EXCLUDING HELIPORTS, AND THE HEIGHT INCREASES IN THE PROPORTION OF ONE HUNDRED (100) FEET FOR EACH ADDITIONAL NAUTICAL MILE OF DISTANCE FROM THE AIRPORT UP TO A MAXIMUM OF FIVE HUNDRED (500) FEET.
3. A HEIGHT WITHIN A TERMINAL OBSTACLE CLEARANCE AREA, INCLUDING AN INITIAL APPROACH SEGMENT, A DEPARTURE AREA, AND A CIRCLING APPROACH AREA, AS DEFINED BY FEDERAL LAWS AND REGULATIONS, WHICH WOULD RESULT IN THE VERTICAL DISTANCE BETWEEN ANY POINT ON THE OBJECT AND AN ESTABLISHED MINIMUM INSTRUMENT FLIGHT ALTITUDE WITHIN THAT AREA OR SEGMENT TO BE LESS THAN THE REQUIRED OBSTACLE CLEARANCE.
4. A HEIGHT WITHIN AN EN ROUTE OBSTACLE CLEARANCE AREA, AS DEFINED BY FEDERAL LAWS AND REGULATIONS, INCLUDING TURN AND TERMINATION AREAS, OF A FEDERAL AIRWAY OR APPROVED OFF-AIRWAY ROUTE, THAT WOULD INCREASE THE MINIMUM OBSTACLE CLEARANCE ALTITUDE.
5. THE SURFACE OF A TAKEOFF AND LANDING AREA OF A PUBLIC-USE AIRPORT OR ANY IMAGINARY SURFACE AS ESTABLISHED BY FAR PART 77. HOWEVER, NO PART OF THE TAKEOFF OR LANDING AREA ITSELF WILL BE CONSIDERED TO BE AN OBSTRUCTION.

NOTE: FAR PART 77 IMAGINARY SURFACES ARE AS SHOWN ON THIS SHEET FOR NORTHERN AROOSTOOK REGIONAL AIRPORT. THESE SURFACES ARE DEPICTED BASED UPON EXISTING AND ULTIMATE AIRPORT DEVELOPMENT.

LEGEND

- CURRENT PENETRATION TO PART 77 SURFACE/SINGLE TREE CLEARING
- OBJECT W/IN 10 FT OF PART 77 SURFACE
- AREA TO BE CLEARED
- EXISTING LOCATION OF OBSTRUCTION LIGHTS.



ENGINEER'S SEAL

PROJECT DESIGNER  
**Hoyle Tanner**  
 BRIDGEMAN ENGINEERING & LAND SURVEYING INC.  
 150 DOW STREET MANCHESTER, NH 03101  
 P.O. BOX 4146 - 495 MAIN STREET  
 FRENCHVILLE, ME 04745  
 E-mail: htl@hoyletanner.com TEL: (207) 769-8791  
 WWW.HOYLETANNER.COM  
 CHECKED BY: WAG  
 DRAWN BY: JLC  
 DESIGNED BY: ERM

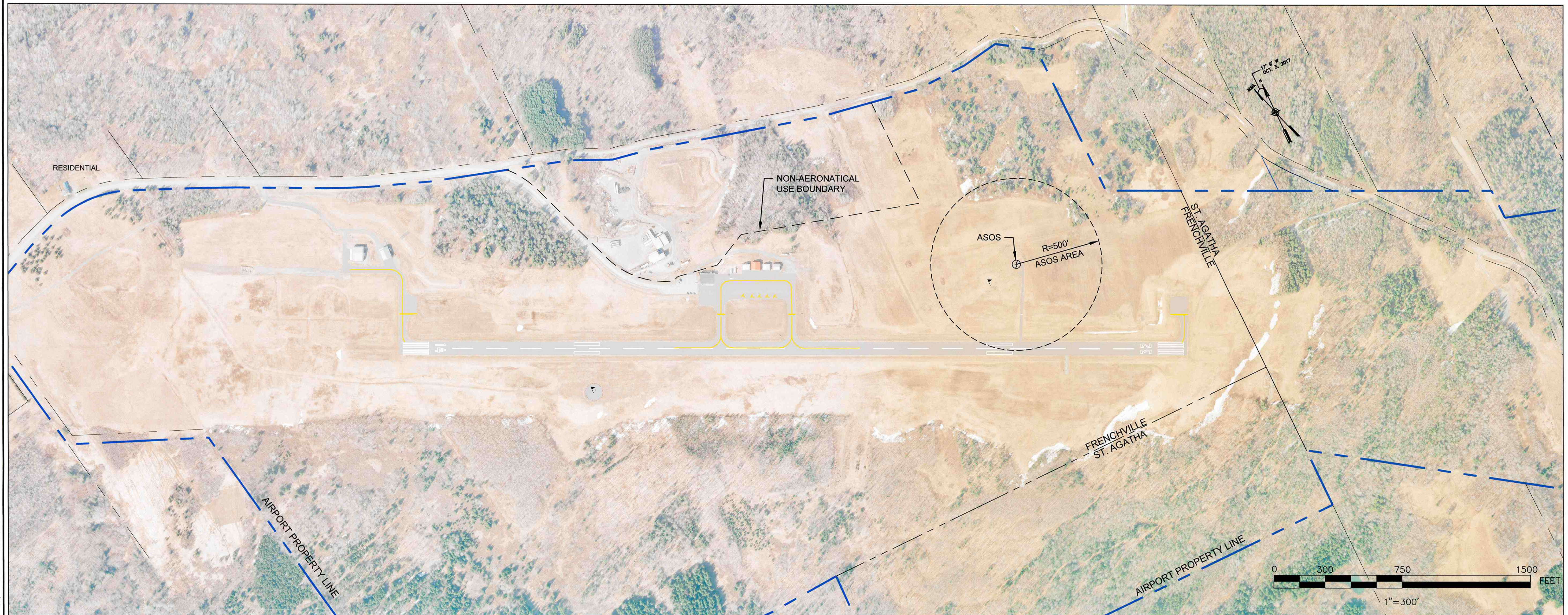
NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY, 74 AIRPORT AVE. FRENCHVILLE, ME 04745  
**Northern Aroostook Regional Airport**  
 Connecting "The Valley" to the World

NORTHERN AROOSTOOK REGIONAL AIRPORT MASTER PLAN UPDATE  
**AIRPORT AIRSPACE DRAWING**  
 SCALE: 1" = 2000'  
 DATE: APRIL 2018

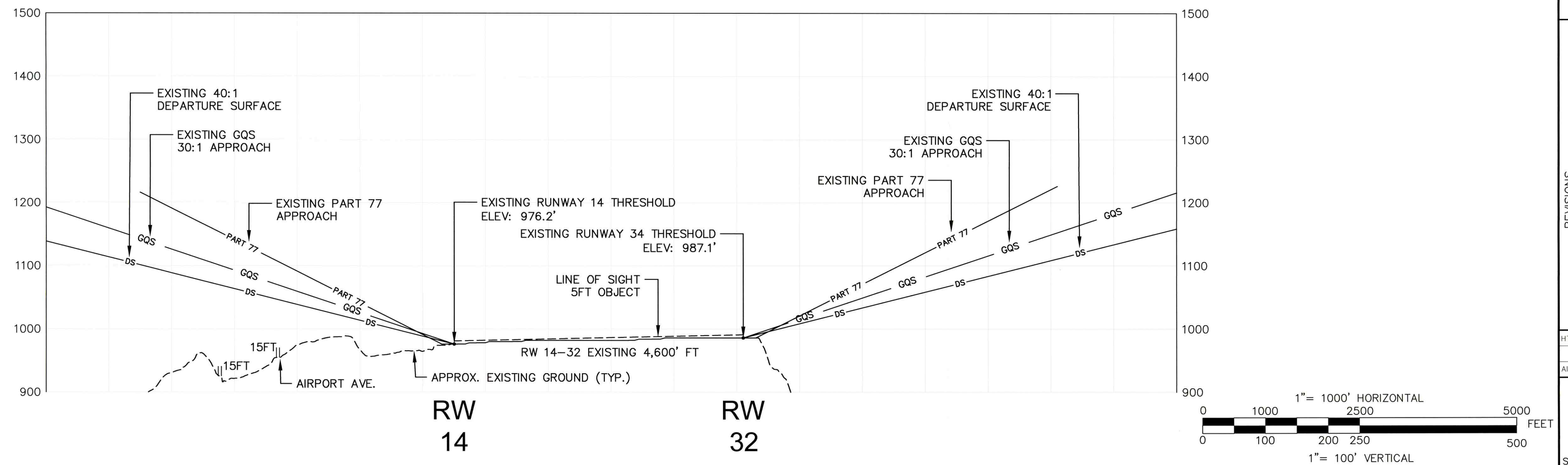
REV. NO.	DATE	DESCRIPTION	BY

HTA PROJ. No.: 308201  
 AIP No.: 3-23-0021-20-2017  
 DRAWING NO. **7**  
 SHEET 7 OF 9

Drawing name: H:\308201\_Brigham FVE Master Plan\Dwgs\Contract\08\_FVE\_LAND\_USE.dwg Oct 08, 2018 9:01am



RW14-32 PROFILE



ENGINEER'S SEAL

PROJECT DESIGNER  
**Hoyle Jamer**  
 ASSOCIATES, INC.  
 BRIDGEM ENGINEERING & LAND SURVEYING INC.  
 P.O. BOX 4146 - 499 MAIN STREET  
 FRENCHVILLE, MAINE 04769-4146 TEL: (207) 769-9791  
 E-MAIL: info@brighameng.com, TEL: (207) 769-9791  
 DESIGNED BY: ERM  
 DRAWN BY: JLC  
 CHECKED BY: WAG

NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY  
 74 AIRPORT AVE.  
 FRENCHVILLE, ME 04749  
**Northern Aroostook Regional Airport**  
 Connecting The Valley to the World

NORTHERN AROOSTOOK REGIONAL AIRPORT  
 MASTER PLAN UPDATE  
**LAND USE DRAWING**  
 SCALE: 1"=300'  
 DATE: APRIL 2018

REV. NO.	DATE	DESCRIPTION	BY

HTA PROJ. No.: 308201  
 AIP No.: 3-23-0021-20-2017  
**DRAWING NO. 8**  
 SHEET 8 OF 9



Legend	
Symbol	Description
$\Delta$	Control Station
S 56°55'00"E	Metes and Bounds as determined in the field
S 57°49'10"E	
$\bullet$	5/8" REBAR SET CAPPED #2023
$\blacksquare$	PROPERTY MONUMENT FOUND
	Airport Property line
	Abutter Property line
	Parcel Boundary line
	Lease Boundary line
	EDGE OF PAVEMENT
	RUNWAY PROTECTION ZONES (RPZ)
	RUNWAY OBJECT FREE AREAS (ROFA)
	RUNWAY SAFETY AREAS (RSA)

**Description of Monuments Found:**

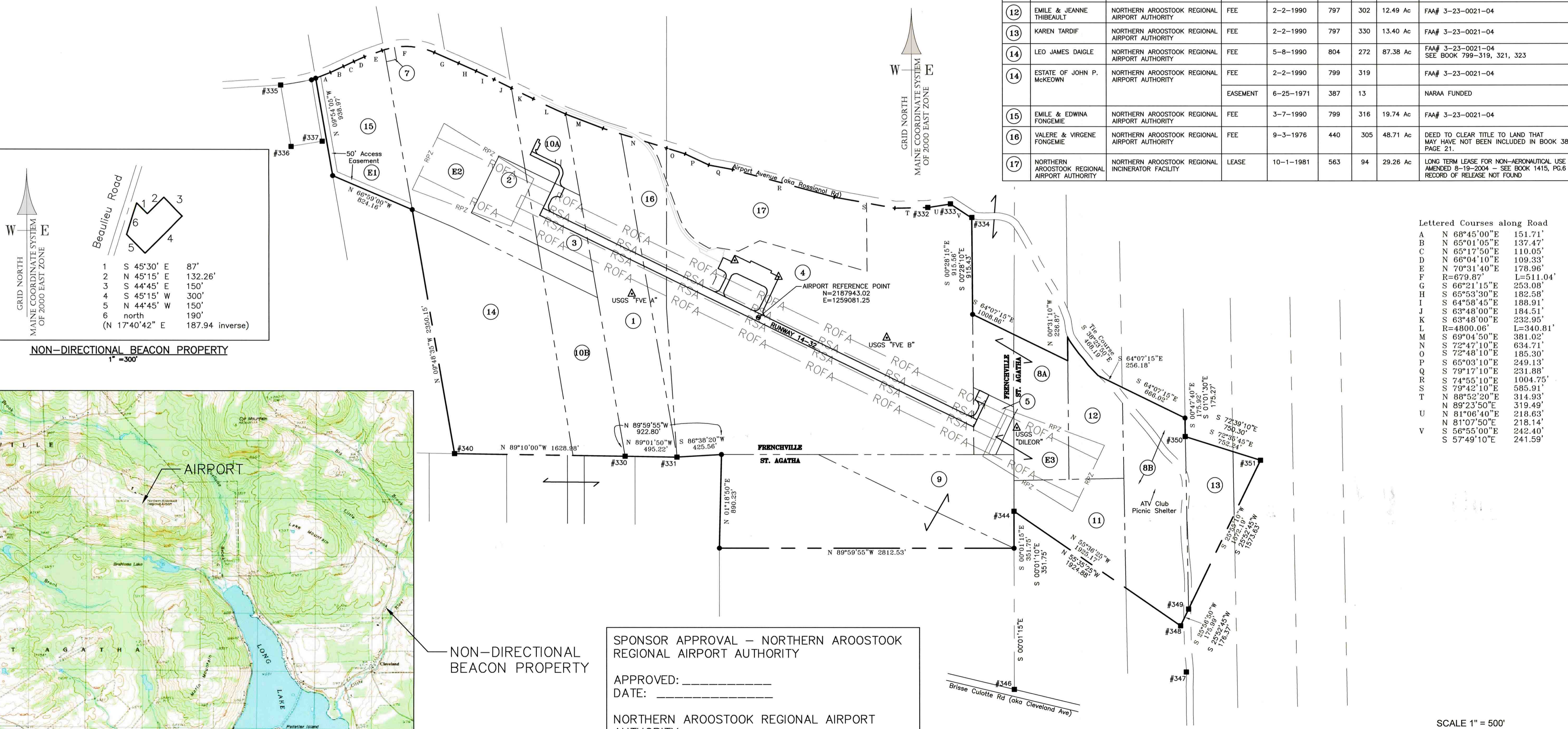
- #330 1" iron pipe, 10" tall, leaning northwest, in piled stones
- #331 1" iron pipe, originally flush, bent hard southeast 6" below surface
- #332 1" iron pipe, 4" tall
- #333 1" iron pipe, 3" below surface, leaning southeast
- #334 #5 rebar, 4" tall, capped "Northern Me Surveyors #1255"
- #335 4" core pipe, 3-1/2" tall, leaning north
- #336 4" core pipe, 4" tall, leaning almost flat to northwest
- #337 4" core pipe, 3-1/2" tall, leaning slightly northeast
- #340 4x4 wood post, 5-1/2" tall, leaning slightly west
- #344 #6 rebar, 10" tall, leaning east; capped, but illegible
- #346 #5 rebar, 4" tall, capped "Northern Me Surveyors #1255"
- #347 #4 rebar, 4" tall, capped "MacDonald PLS 1250"
- #348 #5 rebar, 4" below surface, capped "Northern Me Surveyors #1255"
- #349 #6 rebar, flush, capped "J A Mueller PLS #1296"
- #350 #6 rebar, 8" below surface, capped, but illegible
- #351 #6 rebar, 1" tall, capped "J A Mueller PLS #1296"

**Plan References:**

1. "Plan of Property in Frenchville, Aroostook, Maine; Made for Northern Aroostook Regional Airport Authority" dated May, 1971 by H.I. and E.C. Jordan. Recorded in Plan File #9, Page B; Northern Aroostook Registry of Deeds (NARD).
2. "Survey Plan of the proposed Northwest Land Acquisition for the Northern Aroostook Regional Airport Authority, Frenchville, Maine", dated August, 1986 by Michael P. Cyr. Recorded in Plan File 60, Page B, NARD.
3. "Survey Plan of the proposed Southeast Land Acquisition for the Northern Aroostook Regional Airport Authority, Frenchville, Maine", dated August, 1986 by Michael P. Cyr. Recorded in Plan File 61, Page A, NARD.
4. "Exhibit "A", Airport Property Lines, Frenchville, Maine; Northern Aroostook Regional Airport Authority, 800 Ft. Extension of Runway 14", dated June, 1990 by Hunter-Ballew Associates; not recorded.
5. Property maps, Towns of Frenchville and St. Agatha.
6. Roe and Colby Atlas of Aroostook County, 1877
7. "Rough Draft of a tract of land situated in Township No. 18, R. 5,..." dated November, 1870 by Albert A. Burleigh, and recorded in the Maine State Archives in Plan Book 5A, Page 26.

ACCESS, EGRESS, AND UTILITY EASEMENT							
KEY	GRANTOR	GRANTEE	INSTRUMENT	RECORDED			REMARKS
				DATE	BOOK	PAGE	
E1	EMILE & EDWINA FONGEMIE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	EASEMENT	9-3-1976	799	316	NARAA FUNDED, ACCESS EASEMENT
E2	ROLAND & CLIFFORD GUERRETTE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	EASEMENT	6-25-1971	387	29	NARAA FUNDED, AVIGATION/CLEARING EASEMENT
E3	ESTATE OF JOHN P. MCKEOWN	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	EASEMENT	6-25-1971	387	13	NARAA FUNDED, AVIGATION/CLEARING EASEMENT

LAND ACQUISITIONS, LEASE AND EASEMENTS							
KEY	GRANTOR	GRANTEE	INSTRUMENT	RECORDED			REMARKS
				DATE	BOOK	PAGE	
1	VALERE & VIRGENE FONGEMIE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	5-24-1971	387	21	48.71 Ac NARAA FUNDED
2	ROMEO & ANN MARIE ROSSIGNOL	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	6-25-1971	387	11	6.78 Ac NARAA FUNDED
3	ARTHUR & CAROLINE FONGEMIE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	6-25-1971	387	16	8.06 Ac NARAA FUNDED
4	ANNETTE GUERRETTE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	6-25-1971	387	24	169.66 Ac NARAA FUNDED
5	ANNETTE GUERRETTE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	6-25-1971	387	27	4.12 Ac NARAA FUNDED
6	WINNIE LAVERTU	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	5-14-1975	419	275	1.20 Ac NARAA FUNDED - NDB PROPERTY
7	WINIFRED & GILMAN PAGE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	4-15-1987	725	146	0.27 Ac FAA# 3-23-0021-04
8A	ROLAND & CLIFFORD GUERRETTE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	7-19-1988	777	138	21.85 Ac FAA# 3-23-0021-04
			EASEMENT	6-25-1971	387	29	NARAA FUNDED
8B	ROLAND & CLIFFORD GUERRETTE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	7-19-1988	777	138	26.63 Ac FAA# 3-23-0021-04
9	LIONEL & LUCILLE DIONNE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	10-18-1989	790	267	19.28 Ac FAA# 3-23-0021-04 REMAINING PORTION PURCHASED WITH NARAA
10A	ALBERT SOUSA	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	11-6-1989	796	212	29.05 Ac FAA# 3-23-0021-04
10B			EASEMENT	6-25-1971	387	13	NARAA FUNDED
11	JAMES, JOHN & LINDA CHASSE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	11-10-1989	796	217	16.15 Ac FAA# 3-23-0021-04
12	EMILE & JEANNE THIBEAULT	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	2-2-1990	797	302	12.49 Ac FAA# 3-23-0021-04
13	KAREN TARDIF	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	2-2-1990	797	330	13.40 Ac FAA# 3-23-0021-04
14	LEO JAMES DAIGLE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	5-8-1990	804	272	87.38 Ac FAA# 3-23-0021-04 SEE BOOK 799-319, 321, 323
14	ESTATE OF JOHN P. MCKEOWN	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	2-2-1990	799	319	FAA# 3-23-0021-04
			EASEMENT	6-25-1971	387	13	NARAA FUNDED
15	EMILE & EDWINA FONGEMIE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	3-7-1990	799	316	19.74 Ac FAA# 3-23-0021-04
16	VALERE & VIRGENE FONGEMIE	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	FEE	9-3-1976	440	305	48.71 Ac DEED TO CLEAR TITLE TO LAND THAT MAY HAVE NOT BEEN INCLUDED IN BOOK 387 PAGE 21.
17	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY	LEASE	10-1-1981	563	94	29.26 Ac LONG TERM LEASE FOR NON-AERONAUTICAL USE AMENDED 9-19-2004 - SEE BOOK 1415, PG.6 RECORD OF RELEASE NOT FOUND



**Lettered Courses along Road**

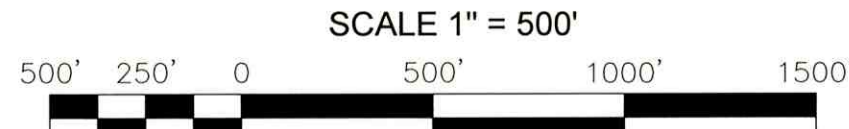
A	N 68°45'00"E	151.71'
B	N 65°01'05"E	137.47'
C	N 65°17'50"E	110.05'
D	N 68°04'10"E	109.33'
E	N 70°31'40"E	178.96'
F	R=679.87'	L=511.04'
G	S 66°21'15"E	253.08'
H	S 65°53'30"E	182.58'
I	S 64°58'45"E	188.91'
J	S 63°48'00"E	184.51'
K	S 63°48'00"E	232.95'
L	R=4800.06'	L=340.81'
M	S 69°04'50"E	381.02'
N	S 72°47'10"E	634.71'
O	S 72°48'10"E	185.30'
P	S 65°03'10"E	249.13'
Q	S 79°17'10"E	231.88'
R	S 74°55'10"E	1004.75'
S	S 79°42'10"E	585.91'
T	N 88°52'20"E	314.93'
U	N 89°23'50"E	319.49'
U	N 81°06'40"E	218.63'
U	N 81°07'50"E	218.14'
V	S 56°55'00"E	242.40'
V	S 57°49'10"E	241.59'

SPONSOR APPROVAL - NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY



**ENGINEER'S SEAL**

PROJECT DESIGNER: **Hoyle Jamer Associates, Inc.**

BRIDHAM ENGINEERING & LAND SURVEYING, INC.

150 DOW STREET, WANGUENISTON, ME 03091  
 468 MAIN STREET, FRENCHVILLE, ME 04745  
 P.O. BOX 4146, FRENCHVILLE, ME 04745  
 E-MAIL: bill@bridhameng.com, TEL: (207) 769-8791

CHECKED BY: \_\_\_\_\_

DRAWN BY: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_

NORTHERN AROOSTOOK REGIONAL AIRPORT AUTHORITY, 74 AIRPORT AVE., FRENCHVILLE, ME 04745

**EXHIBIT "A"**

**AIRPORT PROPERTY INVENTORY MAP**

DATE: APRIL 2018

SCALE: 1"=500'

REV. NO.	DATE	DESCRIPTION

HTA PROJ. No.: 308201

AIP No.: 3-23-0021-20-2017

DRAWING NO. **9**

SHEET 9 OF 9

Drawing name: H:\308201\_Bridham\_EVE\_Master\_Plan\_Dwg\Contract\09-5168\_Boundary\_Survey.dwg May 15, 2018 10:16am



Federal Aviation Administration

January 31, 2019

TO: Northern Aroostook Regional Airport  
 Attn: Mr. Dave Fernald  
 74 Airport Drive  
 Frenchville, ME 04745  
 daferald@yahoo.com

CC: N AROOSTOOK RGNL APT  
 AUTH  
 74 AIRPORT AVE  
 FRENCHVILLE, ME 04745  
 daferald@yahoo.com

RE: (See attached Table 1 for referenced case(s))  
 ALP 7460 No Objection Letter  
 \*\*FINAL DETERMINATION\*\*

Table 1 - Letter Referenced Case(s)

ASN	Prior ASN	Location	Latitude (NAD83)	Longitude (NAD83)	AGL (Feet)	AMSL (Feet)
2018-ANE-987-NRA		FRENCHVILLE,ME	47-17-07.79N	68-18-45.92W	0	983

Description: Airport Layout Plan Northern Aroostook Regional Airport (FVE) Frenchville, Maine

The proposed change to your currently approved Airport Layout Plan (ALP) submitted, 2018-05-23 00:00:00.0 has been reviewed under the authority of Part 77 and under the requirements of the Terms and Conditions of Accepting Airport Improvement Program Grants dated September 1, 1999. This review has considered the safety and utility of aircraft operations and planned navigational aids as related to this proposal.

The proposal does not exceed any federal obstruction standard, however the following conditions need to be met for the Federal Aviation Administration (FAA) to have no objections to the proposed development. Airport Layout Plans (ALPs) are long term planning initiatives and limited in scope, therefore conceptual in nature. ALP approval does not constitute blanket approval of new structures given the absence of detailed structure information required for comprehensive review. All new structures require separate aeronautical study submissions with detailed building plans for independent study. Ensure appropriate Notice of Construction/Alteration, FAA 7460-1, is filed for review of all permanent and temporary structures.

1. Replace existing FAA-owned RW 32 REILs
  - a) The ALP proposes to replace the existing FAA-owned RW 32 REILs.
  - b) The FAA FSEP shows the existing RW 32 REILs with a commissioned/full service status.
  - c) Coordination will be required with the FAA ATO Planning & Requirements (P&R) Group for any necessary agreement to replace the FAA-owned RW 32 REILs.
2. Proposed PAPI installation on RW 14
  - a) The ALP proposes the installation of a 4-Box PAPI on RW 14.
  - b) Coordination will be required with the FAA ATO P&R Group if the proposed RW 14 PAPI will be owned or maintained by the FAA.
  - c) Coordination will be required with the FAA National Flight Data Center (NFDC) to complete a VGSI Data Form for the proposed RW 14 PAPI.

d) Coordination will be required with the proposed PAPI installer to prepare a Plan & Profile for the PAPI and to ensure that no object penetrates the PAPI OCS.

e) Revise Runway Data Table to list the proposed RW 14 PAPI.

3. Replace airport-owned RW 14 REILs with FAA REILs

a) The ALP proposes to replace the airport-owned RW 14 REILs with FAA-owned REILs.

b) Coordination will be required with the FAA ATO P&R Group for any necessary agreement if the proposed REILs will be owned or maintained by the FAA.

4. Proposed Runway Reconstruction

a) Coordinate with the airport operator and the local FAA Tech OPS to ensure that there is no physical impact to the RW 32 PAPI LHAs or to the associated cable infrastructures.

b) Coordinate with the airport operator and the local FAA Tech OPS to ensure that the runway reconstruction will not result in any out-of-tolerance change to RW 32 PAPI RRP elevation vis-à-vis the beam centers of the LHAs.

c) Coordination will be required with the FAA ATO P&R Group for any necessary agreement to restore the RW 32 PAPI into compliance, if there is any adverse impact.

Coordinate with the airport operator to ensure there is a clear line of sight to existing and proposed airfield vis-aids from any controlling point.

#### WEATHER:

In future ALP updates please denote 500 ft. radius clearance area for the FVE ASOS.

Trees within clearance area should comply with order 6560.20C.

#### Flight Services Coordination:

For AVN flight inspection, POC is Georgia Hines, Flight Inspection Services, 405-954-8545

FAA ATO Planning & Requirements (P&R) POC is Tim Wheeler, 404-305-7307

It should be noted that this study did not consider the height of construction equipment. This information needs to be coordinated with this office via an "Airspace Study Checklist" before construction begins.

This study did not evaluate the plans for operational safety during construction. Those plans should be submitted to this office for coordination and review prior to construction.

This determination does not include any environmental analysis or environmental approval for this proposal. All local and state requirements and/or permits must be obtained prior to construction of this proposal.

This determination does not include approval of any lease, does not release any surplus or grant agreement acquired airport property, nor does it relieve the airport owner or the proponent of compliance with Part 155, or any other law, ordinance, or regulation of federal, state, or local government body or organization. Furthermore, the design and location of any stormwater retention/detention facilities on or near the airport must comply with FAA Advisory Circular 150/5200-33 "Hazardous Wildlife Attractants on or Near Airports", and must be approved on the ALP prior to construction.

We look forward to working with you in the continued development of your airport. If you have any questions, please contact me at (781)238-7631, michelle.ricci@faa.gov.

