



VICINITY MAP



LOCATION MAP

# WESTERLY STATE AIRPORT WESTERLY, RHODE ISLAND

## AIRPORT LAYOUT PLAN

### RHODE ISLAND AIRPORT CORPORATION

#### INDEX TO DRAWINGS

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FOR REVISED AERONAUTICAL STUDY REQUEST
7. LAND USE PLAN

APRIL 24, 2009



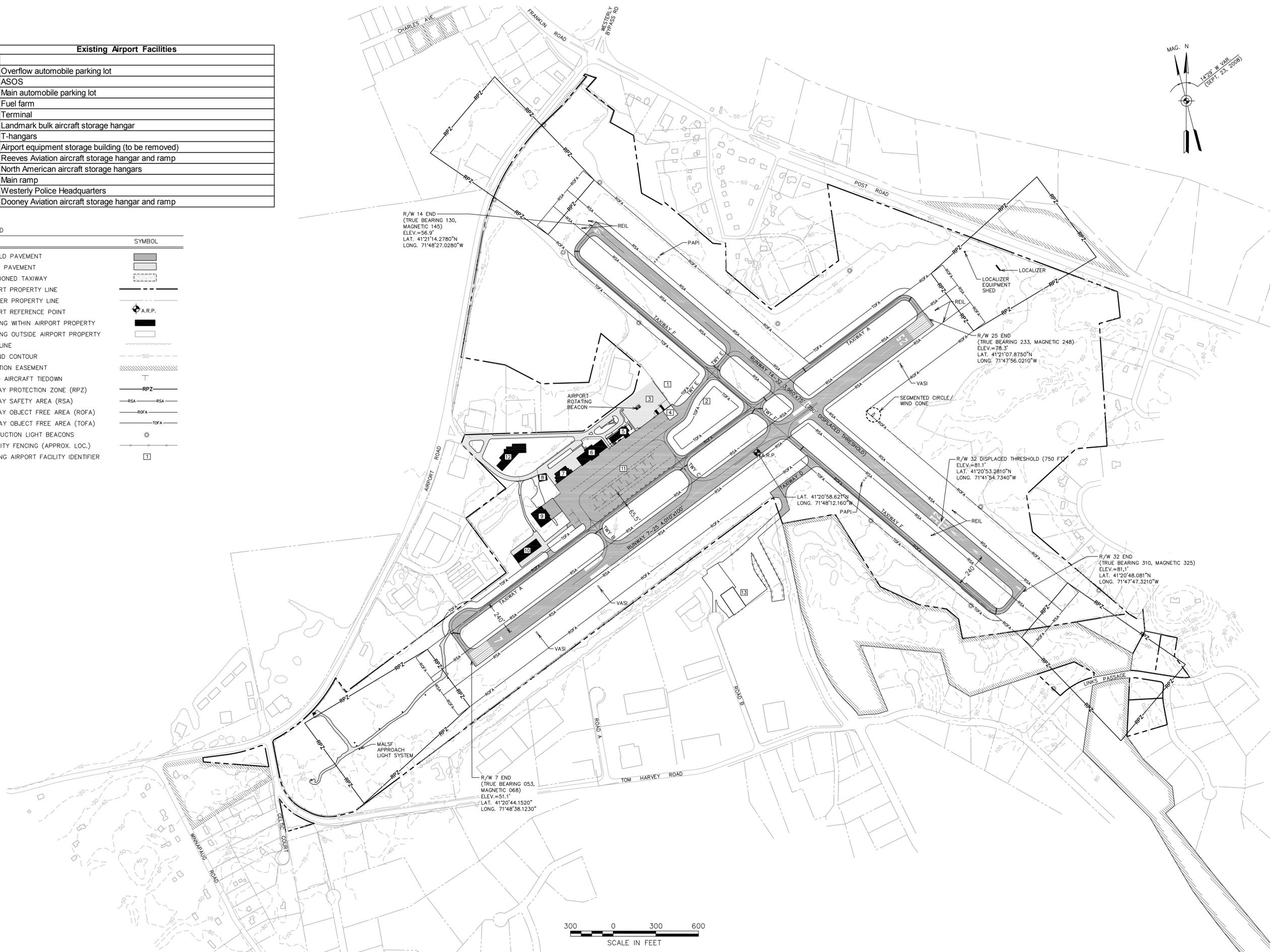
*Vanasse Hangen Brustlin, Inc.*

Transportation  
Land Development  
Environmental Services

101 Walnut Street, P.O. Box 9151  
Watertown, Massachusetts 02471  
617.924.1770 • FAX 617.924.2286

Existing Airport Facilities	
No.	Description
1	Overflow automobile parking lot
2	ASOS
3	Main automobile parking lot
4	Fuel farm
5	Terminal
6	Landmark bulk aircraft storage hangar
7	T-hangars
8	Airport equipment storage building (to be removed)
9	Reeves Aviation aircraft storage hangar and ramp
10	North American aircraft storage hangars
11	Main ramp
12	Westerly Police Headquarters
13	Dooney Aviation aircraft storage hangar and ramp

ITEM	SYMBOL
AIRFIELD PAVEMENT	
OTHER PAVEMENT	
ABANDONED TAXIWAY	
AIRPORT PROPERTY LINE	
ABUTTER PROPERTY LINE	
AIRPORT REFERENCE POINT	
BUILDING WITHIN AIRPORT PROPERTY	
BUILDING OUTSIDE AIRPORT PROPERTY	
TREE LINE	
GROUND CONTOUR	
AVIGATION EASEMENT	
PAVED AIRCRAFT TIEDOWN	
RUNWAY PROTECTION ZONE (RPZ)	
RUNWAY SAFETY AREA (RSA)	
RUNWAY OBJECT FREE AREA (ROFA)	
TAXIWAY OBJECT FREE AREA (TOFA)	
OBSTRUCTION LIGHT BEACONS	
SECURITY FENCING (APPROX. LOC.)	
EXISTING AIRPORT FACILITY IDENTIFIER	



ENGINEER/ARCHITECT	
PROJECT NO.	72088.01
FILE NAME	72088-EX-ALP
DES. BY	BJS
DR. BY	WHH
CHKD. BY	BJS
DATE	APRIL 24, 2009
SCALE	AS SHOWN
<b>Vanasse Hangen Brustlin, Inc.</b> Transportation Land Development Environmental Services 101 Walnut Street, P.O. Box 9151 Waterbury, Massachusetts 02471 617.924.1770 • FAX 617.924.2286	
<b>VHB</b>	
WESTERLY STATE AIRPORT WESTERLY, RHODE ISLAND <b>EXISTING AIRPORT FACILITIES PLAN</b>	
DRAWING NO.	1
SHEET	1 OF 7

EASEMENT AND OBSTRUCTION CLEARING / LIGHTING REQUIREMENTS			
DESCRIPTION	EXISTING CONDITIONS	KEY	REQUIRED TO MEET STANDARDS
Runway 7 approach surfaces	Tree obstructions within Obstacle Clearance Surface (for 3.6 degree VAS)	1	Obtain easement and clear obstructions (trees)
		2	Obtain easement and clear obstructions (trees)
		3	Obtain easement and clear obstructions (trees)
		4	Obtain easement and clear obstructions (trees)
		5	Obtain easement and clear obstructions (trees)
		6	Obtain easement and clear obstructions (trees)
		7	Obtain easement and clear obstructions (trees)
Water tower within Transitional Surface	n/a	15	Install obstruction light in area where trees are to remain
		16	Install obstruction light in area where trees are to remain
Runway 25 approach surface	Tree obstructions within Obstacle Clearance Surface (for 3.0 degree VAS)	8	Obtain easement and clear obstructions (trees)
Runway 14 approach surface	Tree obstructions within Obstacle Clearance Surface (for 4.0 degree PAPI)	12	Obtain easement and clear obstructions (trees)
		13	Obtain easement and clear obstructions (trees)
		14	Obtain easement and clear obstructions (trees)
		15	Obtain easement and clear obstructions (trees)
Runway 32 approach surfaces	Residential property within Runway Protection Zone (RPZ)	9	Obtain fee simple purchase of residential property; clear and maintain property
		11	Obtain easement and clear obstructions (trees)
		14	Install obstruction light in area where trees are to remain

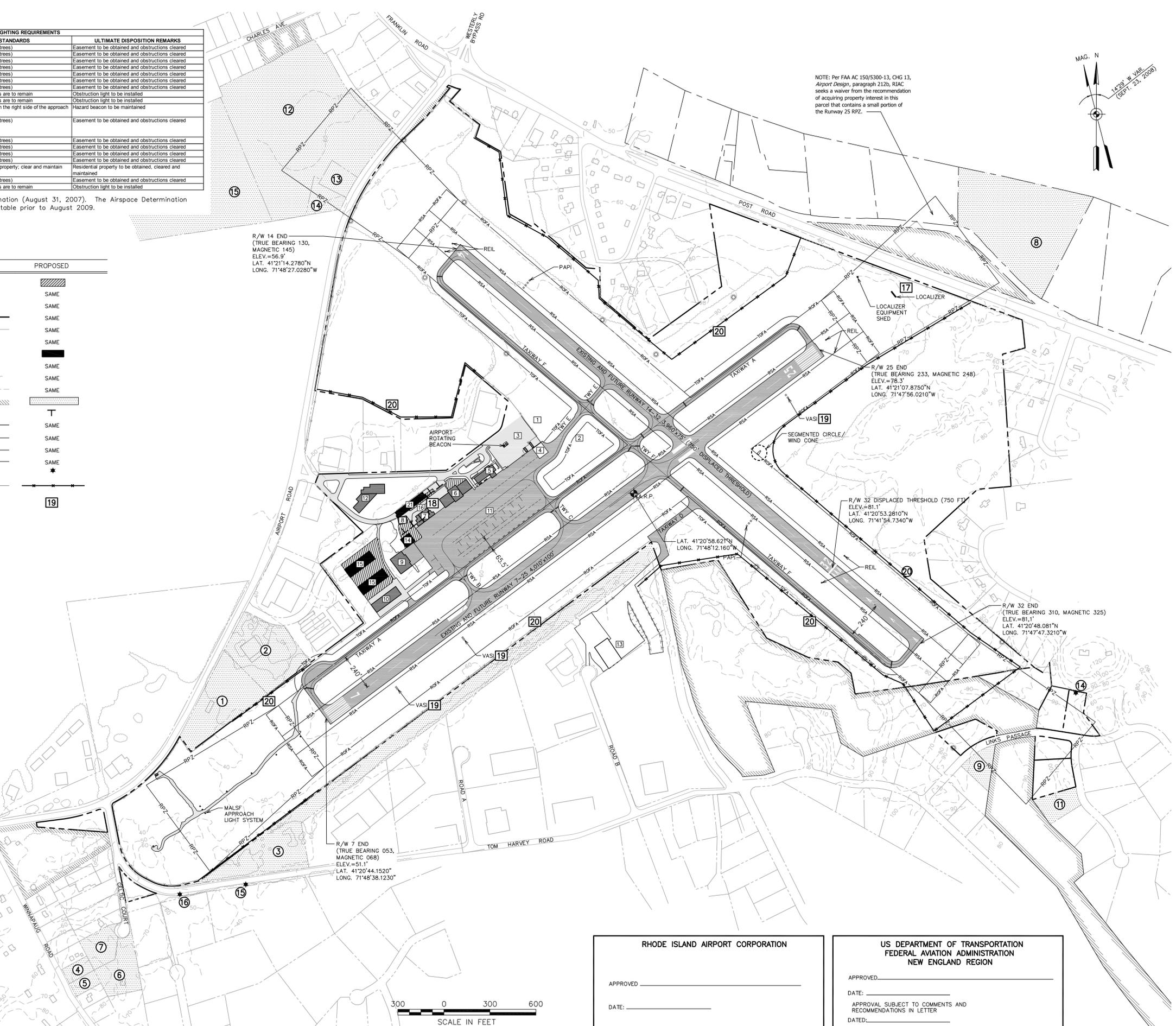
These non-conforming conditions are based on an FAA Airspace Determination (August 31, 2007). The Airspace Determination requires the airport sponsor (RIAC) to take the actions identified in this table prior to August 2009.

LEGEND

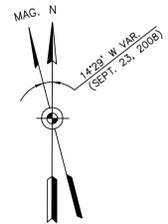
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AIRFIELD PAVEMENT	[Symbol]	[Symbol]
OTHER PAVEMENT	[Symbol]	[Symbol]
ABANDONED TAXIWAY	[Symbol]	[Symbol]
AIRPORT PROPERTY LINE	[Symbol]	[Symbol]
ABUTTER PROPERTY LINE	[Symbol]	[Symbol]
AIRPORT REFERENCE POINT	[Symbol]	[Symbol]
BUILDING WITHIN AIRPORT PROPERTY	[Symbol]	[Symbol]
BUILDING OUTSIDE AIRPORT PROPERTY	[Symbol]	[Symbol]
TREE LINE	[Symbol]	[Symbol]
GROUND CONTOUR	[Symbol]	[Symbol]
AVIGATION EASEMENT	[Symbol]	[Symbol]
PAVED AIRCRAFT TIEDOWN	[Symbol]	[Symbol]
RUNWAY PROTECTION ZONE (RPZ)	[Symbol]	[Symbol]
RUNWAY SAFETY AREA (RSA)	[Symbol]	[Symbol]
RUNWAY OBJECT FREE AREA (ROFA)	[Symbol]	[Symbol]
TAXIWAY OBJECT FREE AREA (TOFA)	[Symbol]	[Symbol]
OBSTRUCTION LIGHT BEACONS	[Symbol]	[Symbol]
SECURITY FENCING (APPROX. LOC.)	[Symbol]	[Symbol]
EXISTING AIRPORT FACILITY IDENTIFIER	[Symbol]	[Symbol]

Existing & Proposed Airport Facilities

No.	Description
1	Overflow automobile parking lot
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19	Proposed replacement of VASI systems with PAPI systems for Runway 7-25
20	Proposed security fence installation
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NOTE: Per FAA AC 150/5300-13, CHG 13, Airport Design, paragraph 212b, RIAC seeks a waiver from the recommendation of acquiring property interest in this parcel that contains a small portion of the Runway 25 RPZ.



RHODE ISLAND AIRPORT CORPORATION  
 APPROVED \_\_\_\_\_  
 DATE: \_\_\_\_\_

US DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 NEW ENGLAND REGION  
 APPROVED \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 APPROVAL SUBJECT TO COMMENTS AND RECOMMENDATIONS IN LETTER  
 DATED: \_\_\_\_\_

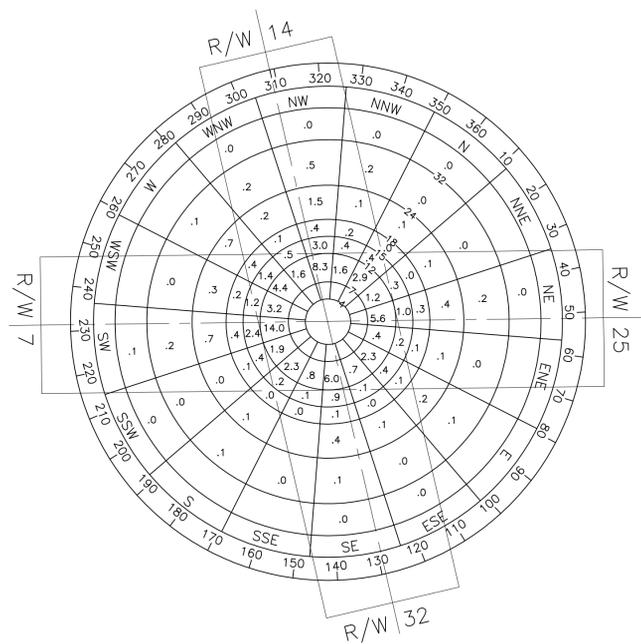
PROJECT NO. 72088.01  
 FILE NAME 72088-PR-ALP

Vanasse Hangen Brustlin, Inc.  
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 617.924.1770 • FAX 617.924.2286

DATE: APRIL 24, 2009  
 DES. BY: BJS  
 DR. BY: WHH  
 CHD. BY: BJS  
 SCALE: AS SHOWN

WESTERLY STATE AIRPORT  
 WESTERLY, RHODE ISLAND  
 AIRPORT LAYOUT PLAN

DRAWING NO. 2  
 SHEET 2 OF 7

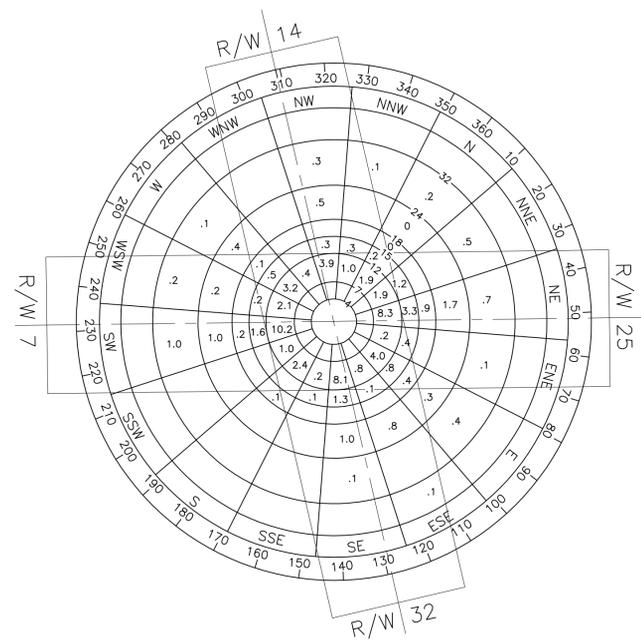


ALL WEATHER WIND ROSE

	12 MPH	15 MPH
R/W 7	48.3%	51.9%
R/W 25	61.6%	64.3%
R/W 7-25	88.2%	94.6%
R/W 14	47.3%	49.2%
R/W 32	63.9%	68.0%
R/W 14-32	89.6%	95.6%
R/W 7-25 & 14-32 COMBINED	97.2%	99.4%
CALMS	21.6%	21.6%

1/ FOR INFORMATION PURPOSES ONLY. THERE ARE NO INSTRUMENT APPROACHES TO RUNWAY ENDS 25, 14 OR 32.

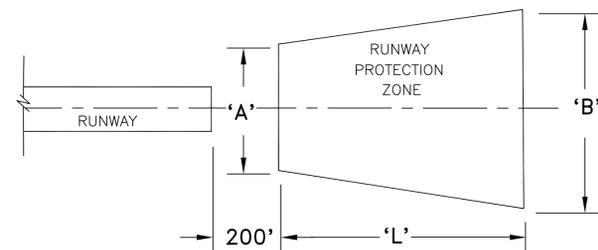
WIND DATA FOR ALL WEATHER AND IFR BASED ON 14,730 ALL WEATHER OBSERVATIONS TAKEN BETWEEN JUNE 1950 AND MAY 1954 AT GROTON-NEW LONDON AIRPORT, NOAA



I.F.R. WIND ROSE

CEILING <1,000' ≥ 500'  
VISIBILITY < 3.0 MILES ≥ 1.5 MILES

	12 MPH	15 MPH
R/W 7	59.6%	60.0%
R/W 25	60.3%	61.9%
R/W 7-25	91.8%	93.8%
R/W 14 1/	58.5%	61.3%
R/W 32 1/	54.4%	58.1%
R/W 14-32 1/	84.8%	91.3%
R/W 7-25 & 14-32 COMBINED 1/	98.0%	94.1%
CALMS	28.1%	28.1%



Runway	Category		L: Length (feet)		A: Inner Width (feet)		B: Outer Width (feet)	
	Existing	Future	Existing	Future	Existing	Future	Existing	Future
7	Non-precision	Same	1,000	Same	500	Same	700	Same
25	Visual	Non-precision	1,000	Same	500	Same	700	Same
14	Visual	Same	1,000	Same	500	Same	700	Same
32	Visual	Same	1,000	Same	500	Same	700	Same

Airport Data		
Item	Existing	Future
Airport Elevation (U.S.G.S. - M.S.L.)	81.0	Same
Airport Reference Point (ARP)	41° 20' 58.621"N 71° 48' 12.160"W	Same
Mean Max Temperature (Hottest Month) (1)	75°F	Same
Operational Role (NPIAS) (2)	Commercial Service Non-Primary	Same
Airport Reference Code (ARC)/Design Code for all Runways	B-II	Same
Critical aircraft (approach speed) (3)	Beech Super King Air B200 = 103 knots (B)	Same
Critical aircraft (wingspan) (3)	Beech Super King Air B200 = 54.5 feet (II)	Same
Critical aircraft (runway strength) (3)	Beech Super King Air B200 = 12,500 pounds	Same
Navigation Aids	Localizer Runway 07	Localizer Runway 07 and GPS Runway 25
Combined wind coverage (all weather) (4)	97.20%	Same
Magnetic declination (date) (5)	14° 29' W (9/23/2008)	Same
Distance and direction to the town of Westerly	1.7 miles NW	Same
Land owned in fee (acres)	326 (6)	Same
Avigation easements (acres)	42.85 (6)	59.9
Owner	State of Rhode Island (Rhode Island Airport Corporation)	Same

Notes:  
 (1) Mean maximum temperature for the hottest month is 75 degrees based on data collected in August 2008.  
 (2) Based on the 2007-2011 National Plan of Integrated Airport Systems (NPIAS) (September 29, 2006).  
 (3) Critical aircraft approach speed, wingspan, and runway strength based on: U.S. Department of Transportation, Federal Aviation Administration, Airport Design, AC No. 150/5300-13, Changes 1-13, U.S. Government Printing Office, Washington, DC, June 19, 2008.  
 (4) Wind data for all weather and IFR based on 14,730 all weather observations taken between June 1950 and May 1954 at Groton New London Airport, NOAA.  
 (5) Based on estimated value of magnetic declination, NOAA declination calculator: <http://www.ngdc.noaa.gov/geomagmodels/struts/calcDeclination>  
 (6) Based on the Exhibit 'A' Property Map completed by the Rhode Island Airport Corporation on August 2005 and revised on April 21, 2008.

Item	Runway Data			
	Runway 7-25		Runway 14-32	
	Existing	Future	Existing	Future
Runway Elevation (Feet M.S.L.)	RWY 7 = 51.1 RWY 25 = 78.3	Same	RWY 14 = 56.9 RWY 32 = 81.1	Same
Runway End Coordinates	RWY 7 Latitude 41° 20' 44.1520" N Longitude 71° 48' 38.1230" W		RWY 14 Latitude 41° 21' 14.2790" N Longitude 71° 48' 27.0280" W	
	RWY 25 Latitude 41° 21' 07.8750" N Longitude 71° 47' 56.0210" W		RWY 32 Latitude 41° 20' 49.0790" N Longitude 71° 47' 47.3100" W	
Displaced Threshold Coordinates	N/A		RWY 32 Latitude 41° 20' 53.2810" N Longitude 71° 41' 54.7340" W	
Bearing (True)	RWY 7 = 053 RWY 25 = 233	Same	RWY 14 = 130 RWY 32 = 310	Same
Length (feet)	4,010	Same	3,960 (with 750 foot displaced threshold)	Same
Width (feet)	100	Same	75	Same
Safety Area (Width/Length in feet)	150/300	Same	150/300	Same
Taxiway Width (feet)	35	Same	35	Same
Pavement Strength (x 1,000 pounds)	Single wheel = 30 Dual wheel = 50	Same	Single wheel = 12.5	Same
Pavement Type	Bituminous concrete	Same	Bituminous concrete	Same
Runway Lighting	Medium intensity	Same	Medium intensity	Same
Runway Approach Lighting	RWY 7 = MALSF	Same	None	Same
Runway Marking	non-precision	Same	basic	Same
Effective Gradient (%)	RWY 7 = 0.7 RWY 25 = 0.7	Same	RWY 14 = 0.6 RWY 32 = 0.6	Same
All Weather Wind Coverage (%) (12MPH)	88.4	Same	89.6	Same
Navigation and Visual Aids	RWY 7 = Localizer RWY 25 = None	Same	RWY 14 = None RWY 32 = None	Same
FAR Part 77 Data	Non-precision		Visual	
Approach Category	Non-precision		Visual	
Approach Type	RWY 7 = non-precision RWY 25 = visual	Same RWY 25 = non-precision	RWY 14 = visual RWY 32 = visual	Same
Approach Slope (feet)	RWY 7 = 34:1 RWY 25 = 20:1	Same RWY 25 = 34:1	RWY 14 = 20:1 RWY 32 = 20:1	Same
Horizontal Surface Height/Radius of Arc (feet)	231/10,000		231/10,000	
Conical Surface Slope/Length (feet)	20:1/4,000		20:1/4,000	
Primary Surface Width/Length Beyond RWY End (feet)	500/200		500/200	

Airport Data	FAR Part 77 Surface Data							
	Runway 7		Runway 25		Runway 14		Runway 32	
	Existing	Future	Existing	Future	Existing	Future	Existing	Future
Category	Non-precision	Same	Visual	Non-precision	Visual	Same	Visual	Same
Approach Type	Non-precision	Same	Visual	Non-precision	Visual	Same	Visual	Same
Visibility Minimums	1 mile		1 mile		1 mile		1 mile	
Airport Elevation (feet, MSL)	81							
Airport Imaginary Surfaces								
Horizontal Surface:								
Horizontal Surface Elevation (feet, MSL)	231							
Horizontal Surface Radius	10,000	Same	10,000	Same	5,000	Same	5,000	Same
Conical Surface:								
Horizontal Distance	4,000							
Slope	20:1							
Primary Surface:								
Length beyond runway end	200	Same	200	Same	200	Same	200	Same
Width	500	Same	500	Same	500	Same	500	Same
Approach Surface:								
Horizontal Distance	10,000							
Inner Edge Width	500	Same	500	Same	500	Same	500	Same
Outer Edge Width	3,500	Same	1,500	3,500	1,500	Same	1,500	Same
Slope	34:1	Same	20:1	34:1	20:1	Same	20:1	Same
Transitional Surfaces:	7:1		7:1		7:1		7:1	

PROJECT NO.  
72088.01  
FILE NAME  
72088-DATA

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 Transportation  
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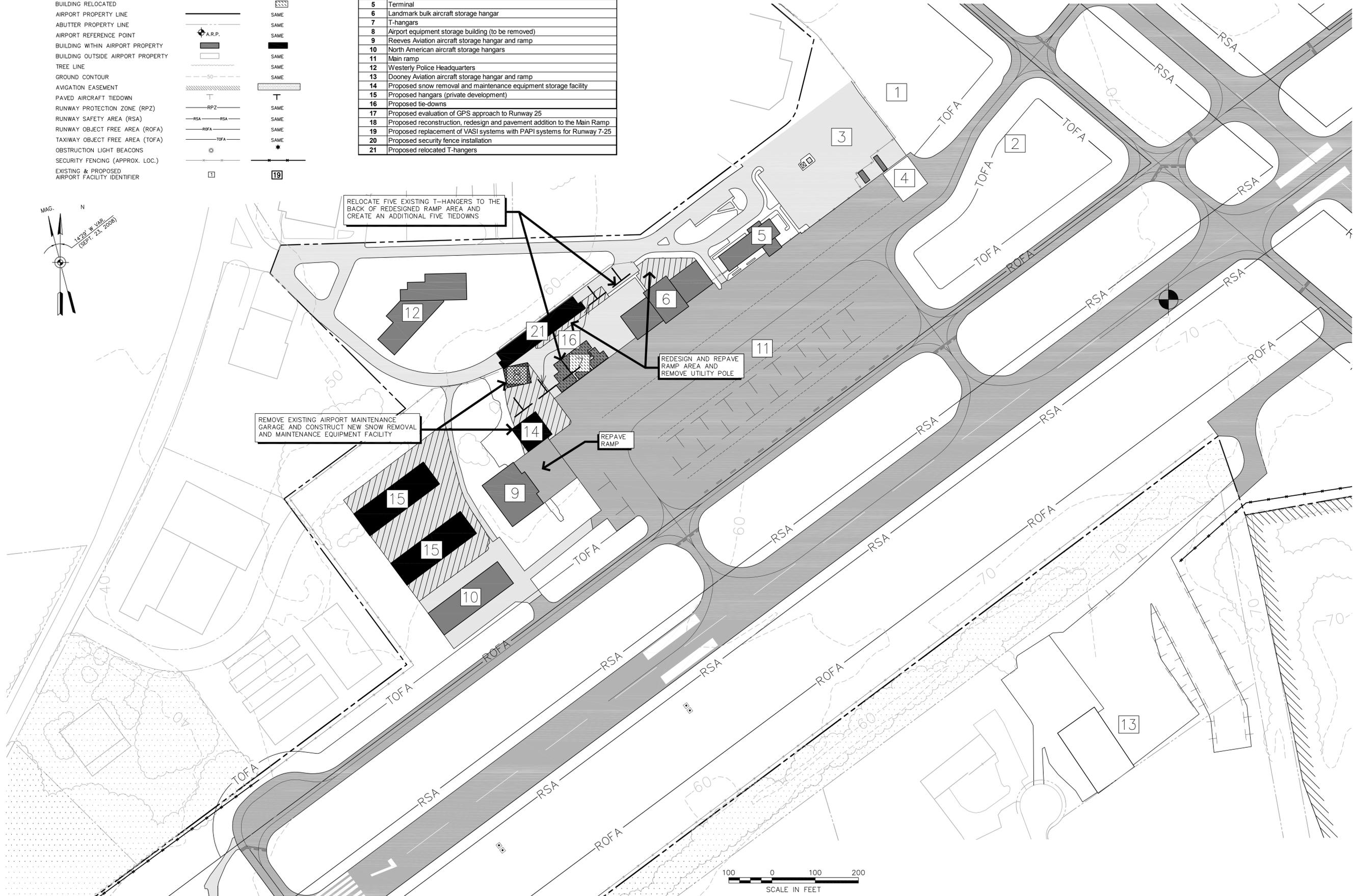
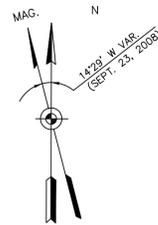
WESTERLY STATE AIRPORT  
 WESTERLY, RHODE ISLAND  
 ALP DATA SHEET

DRAWING NO.

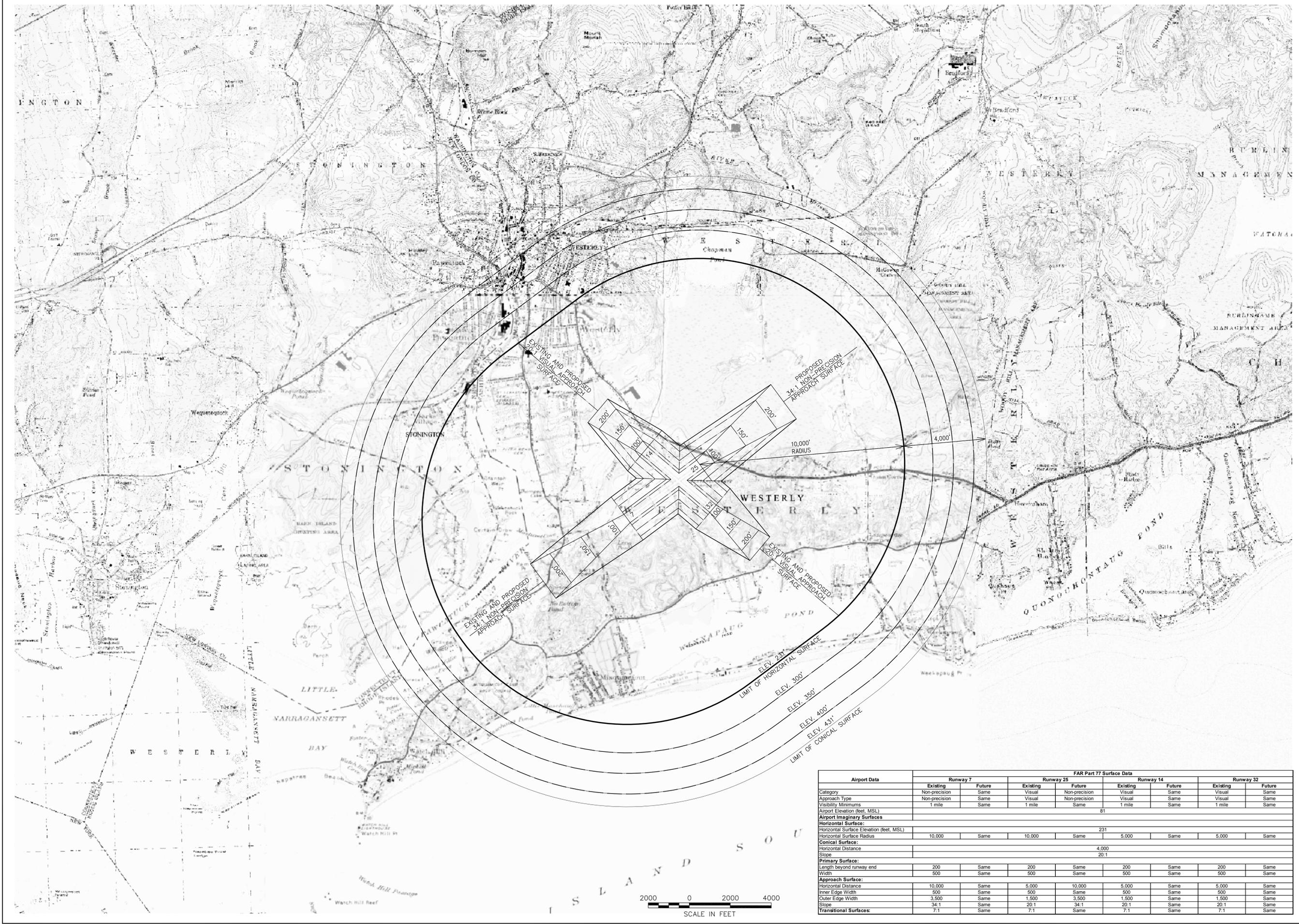
3

ITEM	EXISTING	PROPOSED
AIRFIELD PAVEMENT		
OTHER PAVEMENT		SAME
ABANDONED TAXIWAY		SAME
BUILDING REMOVED		
BUILDING RELOCATED		
AIRPORT PROPERTY LINE		SAME
ABUTTER PROPERTY LINE		SAME
AIRPORT REFERENCE POINT		SAME
BUILDING WITHIN AIRPORT PROPERTY		SAME
BUILDING OUTSIDE AIRPORT PROPERTY		SAME
TREE LINE		SAME
GROUND CONTOUR		SAME
AVIGATION EASEMENT		
PAVED AIRCRAFT TIEDOWN		
RUNWAY PROTECTION ZONE (RPZ)		SAME
RUNWAY SAFETY AREA (RSA)		SAME
RUNWAY OBJECT FREE AREA (ROFA)		SAME
TAXIWAY OBJECT FREE AREA (TOFA)		SAME
OBSTRUCTION LIGHT BEACONS		
SECURITY FENCING (APPROX. LOC.)		
EXISTING & PROPOSED AIRPORT FACILITY IDENTIFIER		

Existing & Proposed Airport Facilities	
No.	Description
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WESTERLY STATE AIRPORT WESTERLY, RHODE ISLAND <b>TERMINAL AREA PLAN</b>	
DRAWING NO.	4
SHEET 4 OF 7	



Airport Data	FAR Part 77 Surface Data								
	Runway 7		Runway 25		Runway 14		Runway 32		
Category	Existing	Future	Existing	Future	Existing	Future	Existing	Future	
Approach Type	Non-precision	Same	Visual	Non-precision	Visual	Same	Visual	Same	
Visibility Minimums	Non-precision	Same	Visual	Non-precision	Visual	Same	Visual	Same	
Airport Elevation (feet, MSL)	1 mile	Same	1 mile	Same	1 mile	Same	1 mile	Same	
<b>Airport Imaginary Surfaces</b>									
<b>Horizontal Surface:</b>									
Horizontal Surface Elevation (feet, MSL)								231	
Horizontal Surface Radius	10,000	Same	10,000	Same	5,000	Same	5,000	Same	
<b>Conical Surface:</b>									
Horizontal Distance								4,000	
Slope								20:1	
<b>Primary Surface:</b>									
Length beyond runway end	200	Same	200	Same	200	Same	200	Same	
Width	500	Same	500	Same	500	Same	500	Same	
<b>Approach Surface:</b>									
Horizontal Distance	10,000	Same	5,000	10,000	5,000	Same	5,000	Same	
Inner Edge Width	500	Same	500	Same	500	Same	500	Same	
Outer Edge Width	3,500	Same	1,500	3,500	1,500	Same	1,500	Same	
Slope	34:1	Same	20:1	34:1	20:1	Same	20:1	Same	
<b>Transitional Surfaces:</b>									
Slope	7:1	Same	7:1	Same	7:1	Same	7:1	Same	

ENGINEER/ARCHITECT

PROJECT NO. 72088.01  
 FILE NAME 72088-AAP

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WESTERLY STATE AIRPORT  
 WESTERLY, RHODE ISLAND  
**AIRPORT PART 77  
 SURFACE DRAWING**

DRAWING NO. **5**  
 SHEET 5 OF 7



