

## CHAPTER 6 - AIRPORT LAYOUT PLAN

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### 6.1 INTRODUCTION

The Airport Layout Plan (ALP) is a drawing used to depict current airport facilities and features graphically. The term ALP refers to a single drawing or a set of drawings. A total of 10 drawings constitutes the full ALP set for the Westfield-Barnes Regional Airport. The original set of ALP drawings is produced at 24" x 36" with a reduced size set included at the end of this chapter. Full-size plans are maintained by the airport, the FAA, MassDOT, and Stantec Consulting Services under project number 195210988.

The basis of the new ALP is the existing airport layout, revised to illustrate the proposed facilities and design standards. These facilities are based on the recommended alternative, as discussed in Chapter 5, and have been refined per additional comments received during the planning process from the Airport Manager and the FAA. The ALP serves as the official document detailing the Westfield Airport Commission's proposed development for the airport. This drawing is signed by the airport sponsor (city of Westfield) and the FAA. Projects must be shown on the ALP to be considered eligible for future federal and state grant funding.

A complete ALP drawing set was prepared following generally accepted planning practices and in conformance with the following:

- FAA Advisory Circular (AC) 150/5070-6B, Airport Master Plans, including Change 1
- FAA Advisory Circular (AC) 150/5300-13A, Airport Design
- Federal Aviation Regulations (FAR) Part 77, Safe Efficient Use and Preservation of the Navigable Airspace
- FAA Standard Operating Procedure (SOP) 2.00, Standard Procedures for FAA Review and Approval of Airport Layout Plans

A narrative description of each drawing in the ALP set is provided in Section 6.3.

### 6.2 OVERVIEW

The ALP serves as a critical planning tool that represents both existing facilities and planned improvements and development for an airport. Sponsors of airport development carried out at federally obligated airports must accomplish the improvement according to an FAA-approved ALP.

The ALP is a plan for an airport that shows:

- Property boundaries and proposed land and easement acquisitions to be controlled by the sponsor for airport and aviation purposes
- The location and nature of existing and proposed airside facilities such as runways, taxiways, aprons, and navigational aids
- The location and nature of existing and proposed landside facilities and structures such as terminals, hangars, control towers, roadways and vehicle parking areas



- Locations of current and proposed aviation and non-aviation development inside the airport property and any other improvements thereon
- Obstructions such as on or off-airport vegetation, buildings, or other structures that penetrate the imaginary surfaces defined by FAR Part 77 Regulations

The ALP must remain current. The Plan becomes out-of-date when it:

- Does not accurately reflect existing features
- Does not adequately provide for future needs
- Does not conform to current airport design standards
- Does not reflect critical land-use changes which may affect the navigable airspace, or which may constrain airport operations or limit the ability of the airport to expand

### 6.3 AIRPORT LAYOUT PLAN DRAWINGS

The Westfield-Barnes Regional Airport ALP Plan set consists of 10 drawings, which are discussed in the following sections.

#### 6.3.1 Title Sheet (Sheet 1)

The title sheet contains the following information:

- Airport name, location, and sponsor
- FAA grant number
- Location and vicinity maps
- Preparer information and date
- Sheet index
- Windrose for All-Weather, IFR, and VFR conditions

#### 6.3.2 Existing Facilities Plan (Sheet 2)

The Existing Airport Layout Plan, prepared at a 500' scale, is provided as both a reference document to identify current facilities and structures (including runways, taxiways, aprons, buildings, other structures, navigational aids, and certain FAR Part 77 imaginary surfaces). This sheet contains very detailed dimensional information for runways, taxiways, non-conforming conditions, and other geographical and operational airport information. The drawing is overlaid on an aerial photograph providing the context of the surrounding area such as land use and wetlands.

#### 6.3.3 Ultimate Airport Layout Plan (Sheet 3)

The proposed improvements shown on the Future ALP (300' scale) were identified by BAF (airport sponsor) in consultation with the FAA. These improvements are considered both feasible and advisable to maintain the airport's role, comply with FAA standards, and improve safety. Refer to the Alternatives Analysis in Chapter 5, which describes other options that were considered. The Implementation and Financial Plans in Chapter 7 estimate the cost of these proposed improvements and recommend a rough schedule and project sequence (highly dependent on available funding). The selected alternative includes, but is not limited to, the following:



- Airside Facilities
  - Runway 15 – Reconstruct and reduce width from 100 to 75-feet
  - Taxiway A - Construct a new run-up area at Runway 33 end. A portion of TW A is proposed for widening in conjunction with TW B
  - Taxiway B North – Realign where it crosses RW 15-33 to eliminate the Hot Spot near the runway and taxiway intersection
  - Taxiway B South – Reconstruct and widen to 75-feet with 25-foot shoulders (125-foot total width)
  - Taxiway B5 – Construct new 35-foot wide taxiway to future hangar development area and provide a direct connection for the Air Methods facility to Runway 2-20.
  - Taxiway E – Reconstruct and widen to 75-feet with 25-foot shoulders (125-foot total width)
  - Taxiway G – After Taxiway G is realigned and extended easterly to the intersection with Taxiway B North, remove the existing section of Taxiway G to Runway 15-33.
  - Taxiway H – Extend TW H to the east across RW 2-20 to the new proposed RON apron area.
  - Taxiway J – Construct new 75-foot wide (with 25-foot shoulders) taxiway from ANG ramp to TW B North
  - Taxiway S – Remove pavement at the east end. Reconstruct and narrow the middle section of TW S and reconstruct the western section to DOD standards in conjunction with the RON apron construction and extension of Taxiway H.
  - South De-Arm Pad – expand the area by approximately 50%
  - North Apron - Expand the Apron by approximately 1,100 square yards
- Navigational Aids
  - ILS Glideslope Antenna Relocation
- Landside Facilities
  - New Self-Service Fuel Farm
  - Demolish Hangar 1 (obstructs the RVZ)
  - Building 35 – Expand SRE Building
  - Hangar 37 – Construct new 50-foot and 60-foot square box hangars the North Apron
  - Hangar 38 - Construct new 70-foot x 100-foot hangar in the North Apron
  - Building 39 – Construct new SRE storage shed
  - Hangar 41 – Construct new box hangar in the Central Apron
  - Hangar 42 – Construct new 60-foot square box hangars in the Retrix Apron
  - Hangar 43 – Demolish existing abandoned building. Expand apron and construct new box hangars



- Hangar 44 – Construct new box hangar and small apron with access to existing taxilanes leading to Taxiway A
- Land Resources
  - Easement acquisition for tree clearing off Runway end 15
  - Acquire property adjacent to the south De-Arm pad
  - Future Aviation Development Areas – undeveloped land near Runway end 15 and Runway end 2 was identified as suitable for future development

#### 6.3.4 Terminal Area Plan (Sheet 4)

The Terminal Plan (100-foot scale) focuses on the aviation service facilities by providing a larger view of the terminal, vehicle parking, hangars, fueling facilities, and apron areas.

#### 6.3.5 Runway 2 Approach Plan and Profile (Sheet 5)

Runway Plan and Profile Sheets are large scale views of inner portions of approaches for each runway showing the Part 77 approach surface to the approximate limit of the RPZ area. Profiles are shown under the plan view providing a clear image of the topography and penetrations into the approach surfaces. The drawing is prepared in two scales: the plan view is at a 200-foot horizontal scale while the profile view is at a 20-foot vertical scale to better depict the obstructions.

Runway end 2 shows obstructions in the 34:1 non-precision Part 77 approach surface on both sides of the Interstate 90, primarily to the right and left of the extended runway centerline.

#### 6.3.6 Runway 20 Approach Plan and Profile (Sheet 6)

The drawing is prepared in two scales: the plan view is at a 200-foot horizontal scale while the profile view is at a 20-foot vertical scale to better depict the obstructions. There are obstructions in the 50:1 Precision Part 77 approach and transitional surfaces primarily off the airport and beyond the Runway Protection Zone.

#### 6.3.7 Runway 15-33 Approach Plan and Profile (Sheet 7)

Sheet 7 provides the Plan and Profile view of both ends of Runway 15-33. This sheet is drawn at the same scale as Sheets 5 and 6, the Runway 33 approach is clear of obstructions. However, there are obstructions to the Runway 15 20:1 (20-foot horizontal for each one-foot vertical) visual approach surface and in the transitional surface south of the runway centerline.

#### 6.3.8 FAR Part 77 Imaginary Surfaces Plan (Sheet 8)

The Airport Airspace drawing (2000-foot scale) illustrates the extent to which the airspace around airports is protected to provide for safe aviation operations. This airspace is defined by Federal Aviation Regulation (FAR) Part 77. These imaginary surfaces defined in the regulations are shown overlaid on an aerial photograph on this sheet.

- Primary Surface
  - RW 2-10: 1,000-foot wide



- RW 15-33: 500-feet wide
- Runway Protection Zones
  - RW 2-20: 1,000 x 1,750 x 2,500-feet
  - RW 15-33: 500 x 700 x 1,000-feet
- Transitional Surface: Extends outward and upward from the long sides of the Primary and Approach Surfaces at a 7:1 slope
- Horizontal Surface: A horizontal plane at 421-feet (150-feet above the established airport elevation of 271-feet)
- Conical Surfaces: Extends outward and upward from the perimeter of the Horizontal Surface at a slope of 20:1 for a horizontal distance of 4,000-feet up to 621-feet above the surface.

### 6.3.9 Exhibit A (Sheets (9 & 10))

This two-sheet exhibit shows plat/lot maps in the airport vicinity along with property owners, aviation easements previously acquired, and proposed new easements to be acquired on one parcel. Sheet 9 (Property Map Sheet 1) shows the property under the control of the airport. Sheet 10 (Property Map Sheet 2) contains additional property tables.

## 6.4 FAA APPROVAL

The FAA conditionally approved the ALP on September 3, 2020. A copy of the final determination letter is on page 6.83, followed by the ALP set.



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**Federal Aviation Administration**

September 03, 2020

TO:  
Westfield-Barnes Regional Airport  
Attn: Christopher Willenborg  
110 Airport Road  
Westfield, MA 01085  
cwillenborg@barnesairport.com

CC:  
Stantec Consulting Services  
Attn: Ervin Deck  
482 Payne Road  
Scarborough, ME 04074  
ervin.deck@stantec.com

RE: *(See attached Table 1 for referenced case(s))*  
\*\*FINAL DETERMINATION\*\*

Table 1 - Letter Referenced Case(s)

ASN	Prior ASN	Location	Latitude (NAD83)	Longitude (NAD83)	AGL (Feet)	AMSL (Feet)
2020-ANE-1426-NRA		WESTFIELD/ SPRINGFIELD,MA	42-09-28.60N	72-42-57.10W	1	271

Description: ALP Update

We do not object to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

Runway Data table: Include a separate line for NAVAIDS to list PAPIs, REILs and SSALSR. These are not approach lighting system elements.

List a MALSR as an existing approach lighting system for RW 20.

The ALP drawing shows a proposed set of REILs on RW 2 End but these are not shown in the Runway Data Table; please add.

The Runway Data Table lists the Displaced Threshold Distance for RW 15 as 0'. This is not consistent with the FAA Chart Supplement which lists the RW 15 Displaced Threshold Distance as 490'. Confirm the correct displaced threshold distance and revise as appropriate.

NAVAIDS: The dimensions of the BAF Side Band Reference Glide Slope's critical area needs to be verified, and the shape corrected. The 1000' radius clear zone around the BAF VORTAC needs to be added to the ALP.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.



In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on March 3, 2022 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lisa J. Lesperance (781)238-7616  
lisa.lesperance@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ANE-1426-NRA.

Lisa J. Lesperance

DivUser

**Signature Control No: 444339733-450108489**

**cc:**

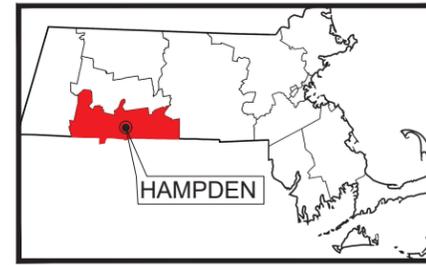
Denise Garcia, MassDOT/Aeronautics



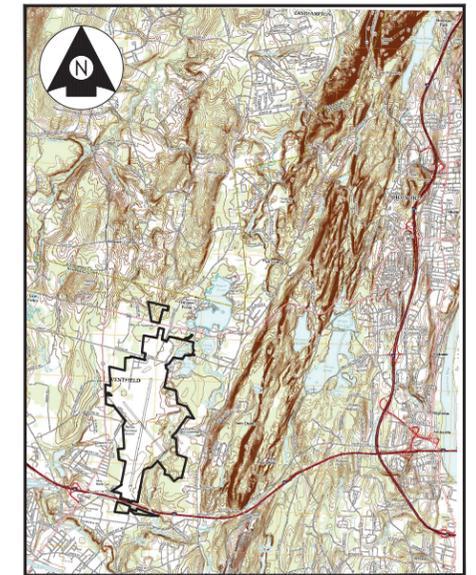


# WESTFIELD-BARNES REGIONAL AIRPORT WESTFIELD, MASSACHUSETTS

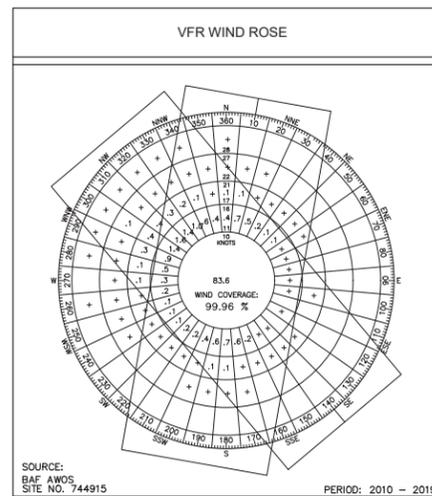
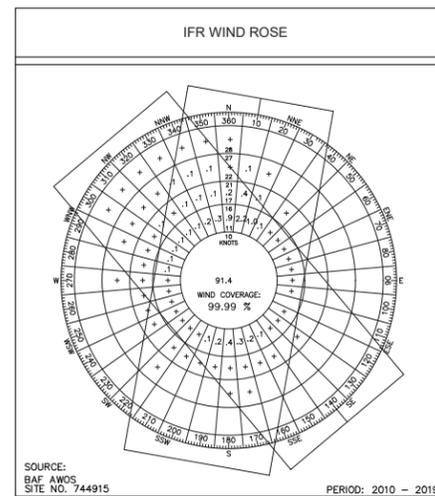
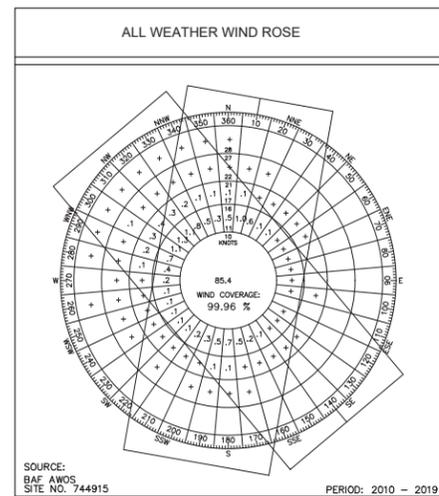
## AIRPORT LAYOUT PLAN UPDATE



LOCATION MAP  
NOT TO SCALE



VICINITY MAP  
NOT TO SCALE



### INDEX OF SHEETS

SHEET NO.	TITLE	REVISION DATE
1.	TITLE SHEET	
2.	EXISTING FACILITIES PLAN	
3.	ULTIMATE AIRPORT LAYOUT PLAN	
4.	TERMINAL AREA PLAN	
5.	RUNWAY 2 APPROACH PLAN AND PROFILE	
6.	RUNWAY 20 APPROACH PLAN AND PROFILE	
7.	RUNWAY 15-33 APPROACH PLAN AND PROFILE	
8.	FAR PART 77 IMAGINARY SURFACES PLAN	
9.	EXHIBIT A SHEET 1 OF 2	
10.	EXHIBIT A SHEET 2 OF 2	

JUNE 2021  
FAA AIP 3-25-0052-051-2017  
STANTEC PROJECT NO. 195210988



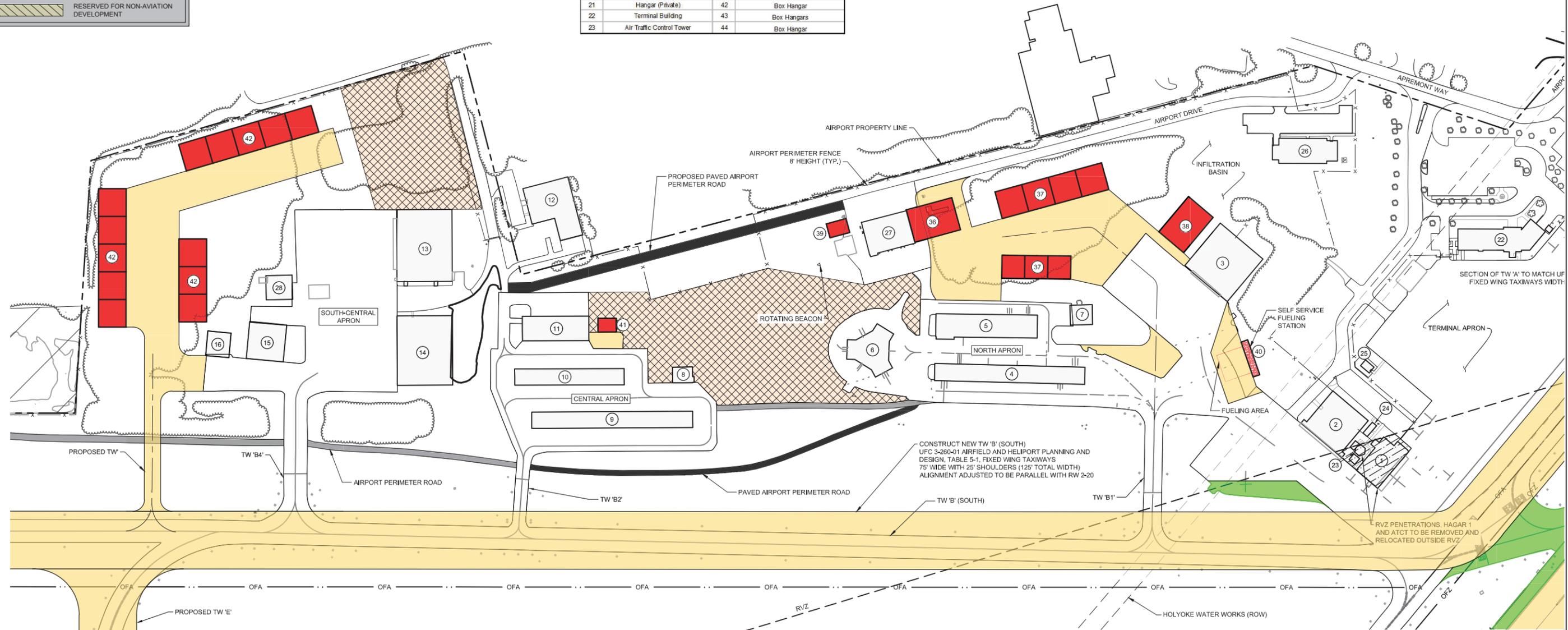


LEGEND	
	AIRPORT PROPERTY LINE
	EXISTING CONTOUR
	EXISTING FENCE
	PROPOSED FENCE
	RUNWAY SAFETY AREA
	OBJECT FREE AREA
	OBJECT FREE ZONE
	BUILDING RESTRICTION LINE
	RUNWAY VISIBILITY LINE
	RUNWAY PROTECTION ZONE
	FAR PART 77 SURFACE
	THRESHOLD SITING SURFACE
	EXISTING PAVEMENT
	PROPOSED PAVEMENT
	PAVEMENT TO BE REMOVED
	EXISTING BUILDING
	PROPOSED BUILDING
	FUTURE AVIATION DEVELOPMENT
	RESERVED FOR NON-AVIATION DEVELOPMENT

FACILITIES TABLE			
EXISTING		EXISTING	
NO.	DESCRIPTION	NO.	DESCRIPTION
1	Hangar 1	24	Abandoned Elec. Vault
2	Hangar 2	25	Airfield Electrical Vault
3	Hangar 3	26	Westfield City Building
4	Tee Hangar	27	SRE Building
5	Hangar	28	Fuel Fam
6	HEX Hangar	29	Fuel Fam
7	Hangar	30	MA Air Natnal Guard (Leasehold)
8	Hangar	31	Army National Guard (Leasehold)
9	Tee Hangar	32	Gulf Stream (Leasehold)
10	Tee Hangar	33	Office
11	Hangar	34	Hangar
12	Tee Hangar (Off Airport Property)	35	Abandoned Buildings
PROPOSED			
NO.	DESCRIPTION	NO.	DESCRIPTION
13	Hangar	36	SRE Expansion
14	Hangar	37	Box Hangars
15	Hangar	38	70x100' Hangar
16	Hangar	39	SRE Storage Shed
17	Hangar	40	Self Service AVI GAS Station
18	Tee Hangar (RECTRIX)	41	Box Hangar
19	Tee Hangar	42	Box Hangar
20	Tee Hangar	43	Box Hangars
21	Hangar (Private)	44	Box Hangar
22	Terminal Building		
23	Air Traffic Control Tower		

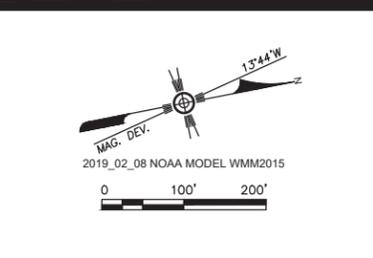
AIRPORT DATA TABLE		
AIRPORT DATA	EXISTING	PROPOSED
FAA Site Number	13306A	13306
Airport Elevation (MSL) (NAVD 88)	270.7'	270.7'
Airport Reference Point (NAD 83)	42° 09' 28.0"N / 072° 42' 56.4"W	42° 09' 28.0"N / 072° 42' 56.4"W
Latitude / Longitude		
Mean Max Temperature of Hottest Month	85°F	85°F
Airport Navigation Aids (Ownership)	ILS (FAA), PAPI (FAA), MALSR (FAA), Runway Lights (Airport), Rotating Beacon (Airport)	ILS (FAA), PAPI (FAA), MALSR (FAA), Runway Lights (Airport), Rotating Beacon (Airport)
Miscellaneous Facilities	Taxiway Lighting, Lighted Windcone, ASOS, AvGas, Jet A Fuel	Taxiway Lighting, Lighted Windcone, ASOS, AvGas, Jet A Fuel
Declination	13°44'W	0.3'E / Year
Source (Date)	NOAA (Feb 2019)	NOAA (Feb 2019)
NPIAS Service Level	General Aviation	General Aviation
State Service Level	General Aviation Regional	General Aviation Regional
Type of Aeronautical Survey Required	Not Applicable	Non-Precision Vertically Guided
Airport Reference Code	C-III	C-III
Taxiway Design Group / Taxiway Width	TDG-2 Taxiway A Group: 50' Taxiway B Group: 35'	TDG-2 Taxiway A Group: 50' Taxiway B Group: 35'
Design Aircraft	GULFSTREAM G650	GULFSTREAM G650

TAXIWAY PROTECTION (PROPOSED)			
TAXIWAY	WIDTH (FT)	TSA WIDTH (FT)	TOFA WIDTH (FT)
A	50'	79'	131'
B (North)	125'	79'	131'
B (South)	125'	79'	131'
B1	35'	79'	131'
B2	60'	79'	131'
B4	35'	79'	131'
D	REMOVED	N/A	N/A
E	50'	79'	131'
F	50'	79'	131'
G	REMOVED	N/A	N/A
H	140'	79'	131'
S	125'	79'	131'



Permit-Seal	
Revision	By Appd. MM.DD.YY
Issued	By Appd. YY.MM.DD

Permit-Seal
By Appd. MM.DD.YY
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Client/Project	WESTFIELD-BARNES REGIONAL AIRPORT
	AIRPORT LAYOUT PLAN
	WESTFIELD, MASSACHUSETTS
File Name:	CAM ECD PVE X Dwn. Crkd. Dsgn. Yr.MM.DD

Title			
TERMINAL AREA PLAN			
Project No.	Scale		
195210988	AS SHOWN		
Drawing No.	Sheet	Revision	
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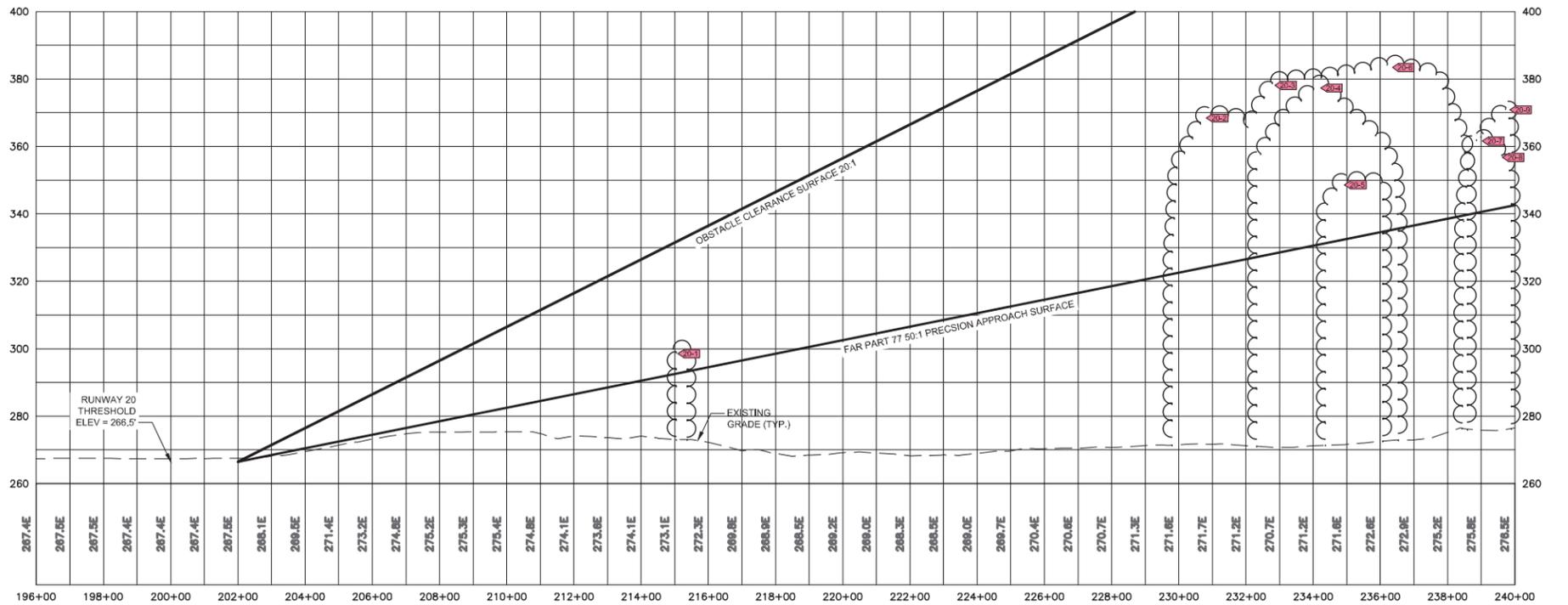
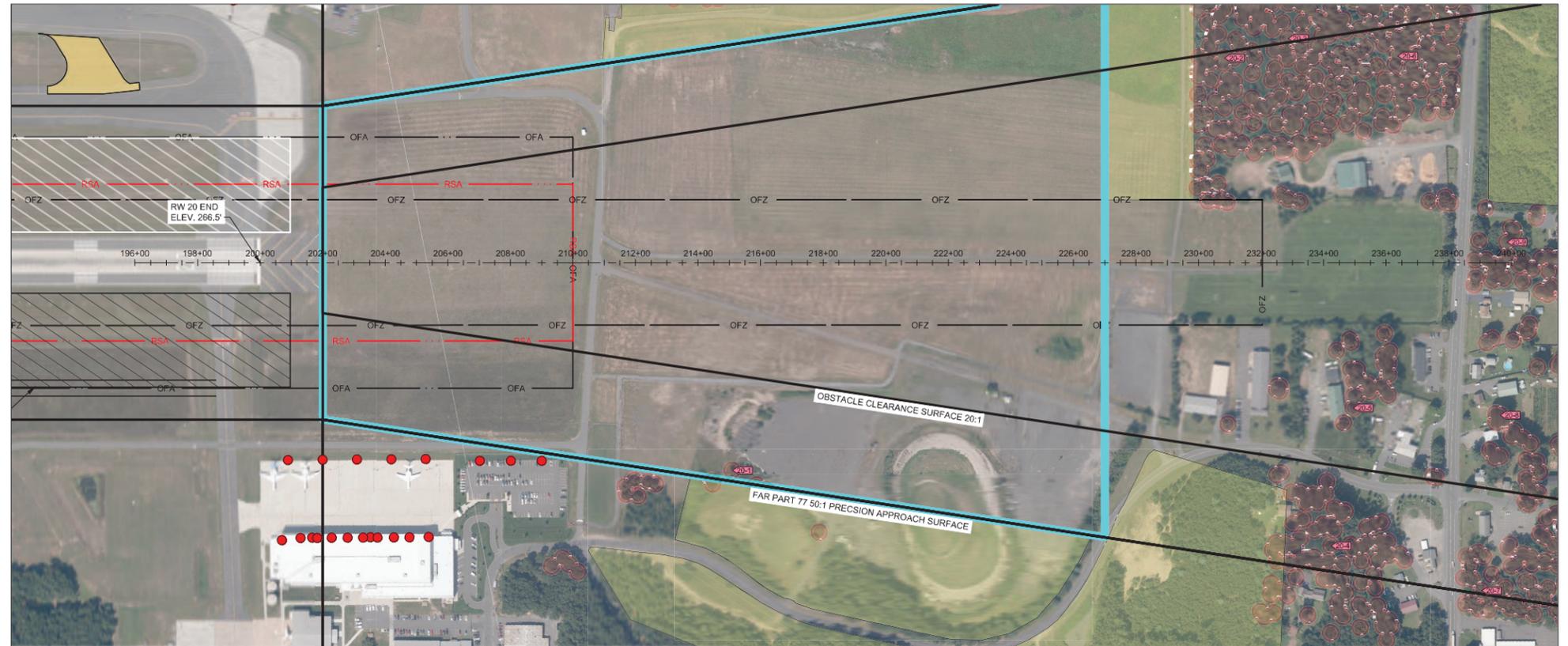
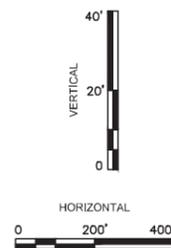
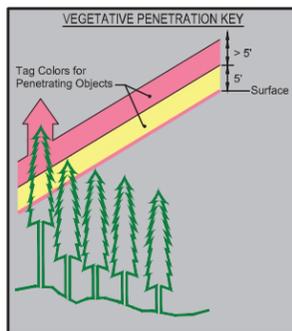


### LEGEND

- AIRPORT PROPERTY LINE
- EXISTING CONTOUR
- EXISTING FENCE
- PROPOSED FENCE
- RUNWAY SAFETY AREA
- OBJECT FREE AREA
- OBJECT FREE ZONE
- BUILDING RESTRICTION LINE
- RUNWAY VISIBILITY LINE
- RUNWAY PROTECTION ZONE
- PROPOSED EASEMENT
- THRESHOLD SITING SURFACE
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- PAVEMENT TO BE REMOVED
- EXISTING BUILDING
- PROPOSED BUILDING
- FUTURE AVIATION DEVELOPMENT
- RESERVED FOR NON-AVIATION DEVELOPMENT
- EXISTING WETLANDS
- LEASE HOLD
- FAR PART 77 NON-VEGETATIVE OBSTRUCTIONS (ACTUAL OBSTRUCTIONS > 0' ABOVE SURFACE)
- FAR PART 77 VEGETATIVE OBSTRUCTIONS (ACTUAL OBSTRUCTIONS > 0' ABOVE SURFACE)
- FAR PART 77 APPROACH SURFACE ONLY VEGETATIVE OBSTRUCTION ID TAG (REFER TO VEGETATIVE PENETRATION KEY)
- EXISTING TREE LINE (PROFILE VIEW)

**NOTE:**  
 ALL ELEVATIONS ARE MEAN SEA LEVEL (MSL)  
 VERTICAL DATUM - NAVD 88  
 COORDINATE SYSTEM - NAD 83

RUNWAY 20 OBSTRUCTION TABLE			
NO	DESCRIPTION	TOP ELEV. (FT)	PENETRATION (FT)
20-1	TREE	299.8	7
20-2	TREE	369.7	46
20-3	TREE	379.4	51
20-4	TREE	378.6	48
20-5	TREE	349.9	18
20-6	TREE	384.7	50
20-7	TREE	362.9	22
20-8	TREE	358.0	16
20-9	TREE	372.1	30



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 WESTFIELD-BARNES REGIONAL AIRPORT

AIRPORT LAYOUT PLAN

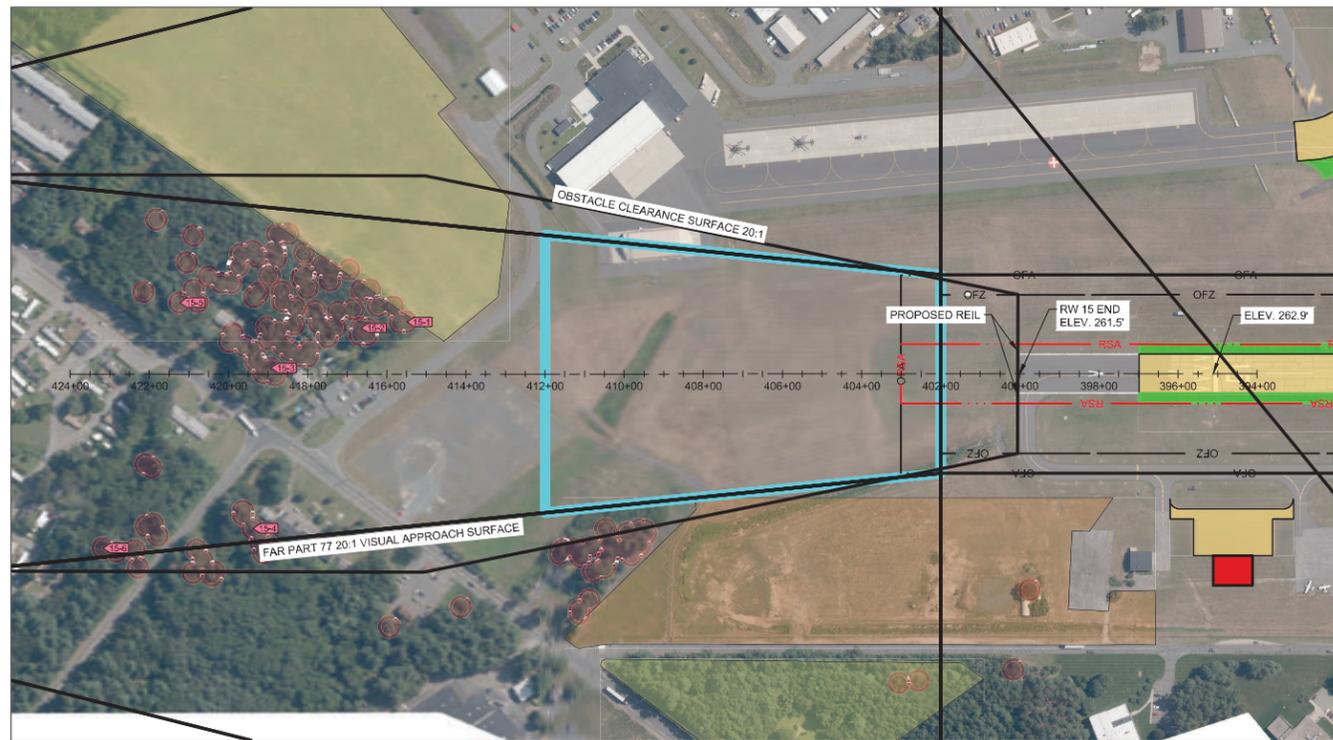
WESTFIELD, MASSACHUSETTS

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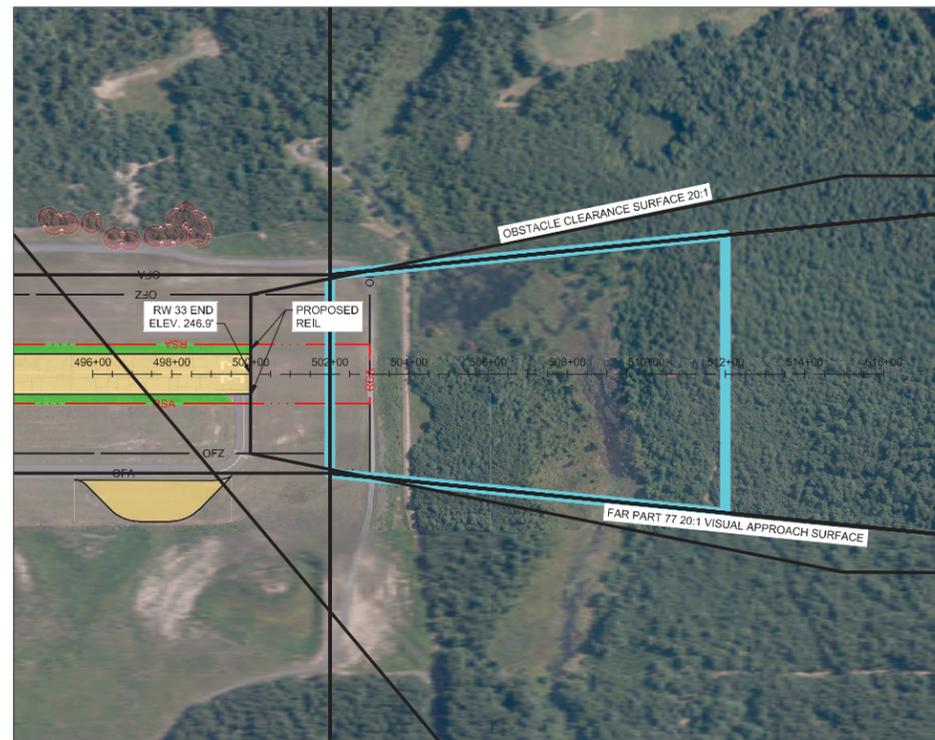
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 RUNWAY 20 APPROACH PLAN AND PROFILE

Project No. 195210988 Scale AS SHOWN

Drawing No. 6 Sheet 6 of 10 Revision 0



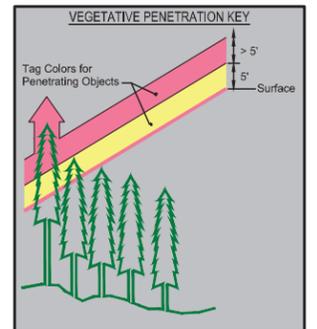
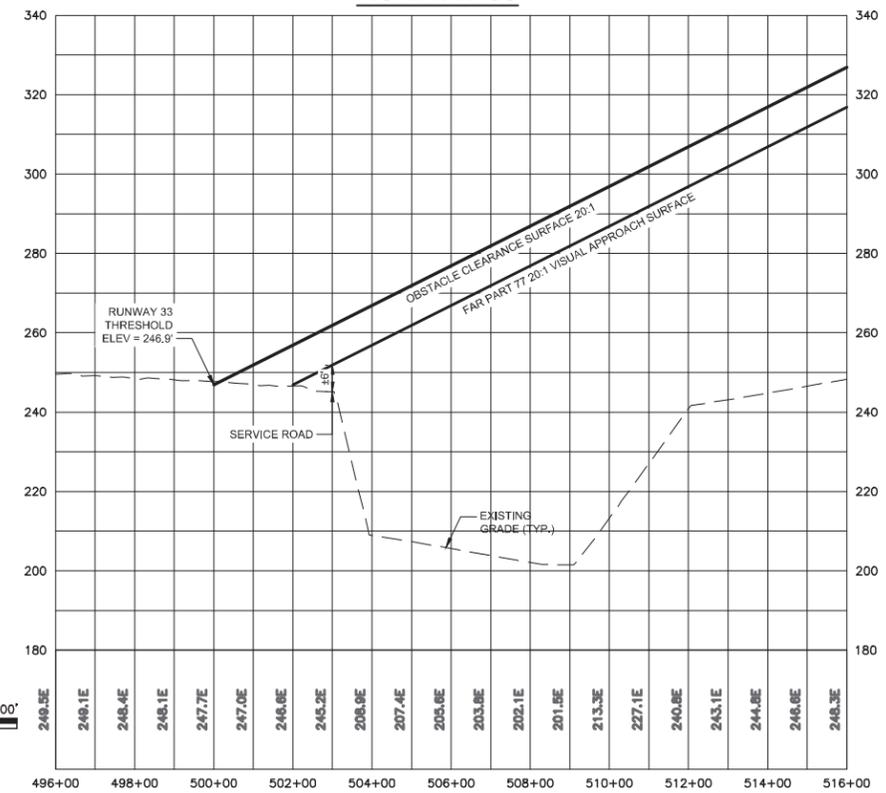
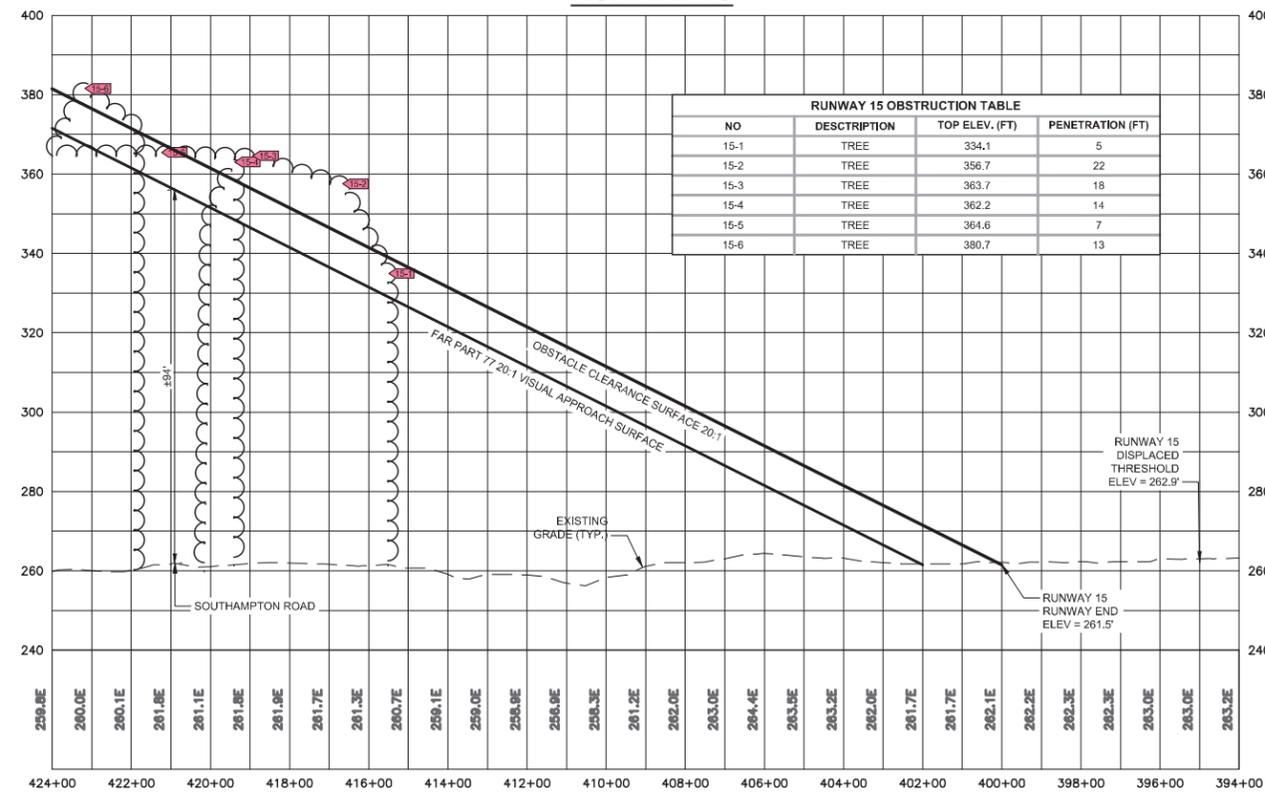
**RUNWAY 15**



**RUNWAY 33**

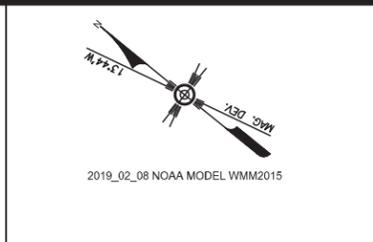
LEGEND	
	AIRPORT PROPERTY LINE
	EXISTING CONTOUR
	EXISTING FENCE
	PROPOSED FENCE
	RUNWAY SAFETY AREA
	OBJECT FREE AREA
	OBJECT FREE ZONE
	BUILDING RESTRICTION LINE
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	LEASE HOLD
	FAR PART 77 NON-VEGETATIVE OBSTRUCTIONS (ACTUAL OBSTRUCTIONS > 0' ABOVE SURFACE)
	FAR PART 77 VEGETATIVE OBSTRUCTIONS (ACTUAL OBSTRUCTIONS > 0' ABOVE SURFACE)
	FAR PART 77 APPROACH SURFACE ONLY VEGETATIVE OBSTRUCTION ID TAG (REFER TO VEGETATIVE PENETRATION KEY)
	EXISTING TREE LINE (PROFILE VIEW)

**NOTE:**  
 ALL ELEVATIONS ARE MEAN SEA LEVEL (MSL)  
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Permit-Seal



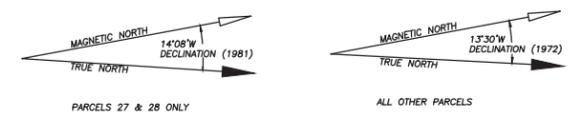
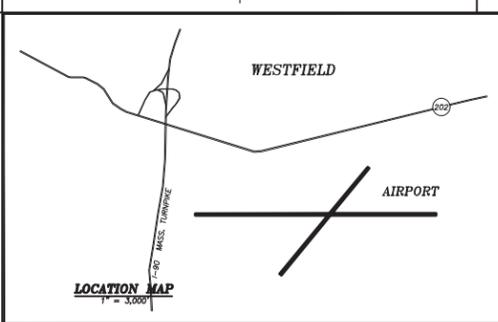
Client/Project  
 WESTFIELD-BARNES REGIONAL AIRPORT  
 AIRPORT LAYOUT PLAN  
 WESTFIELD, MASSACHUSETTS

Title  
 RUNWAY 2 APPROACH PLAN AND PROFILE

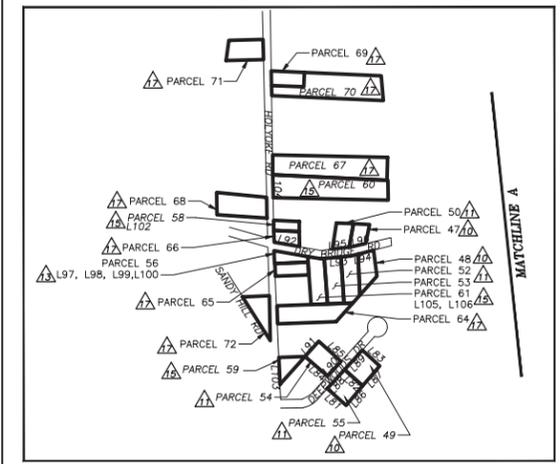
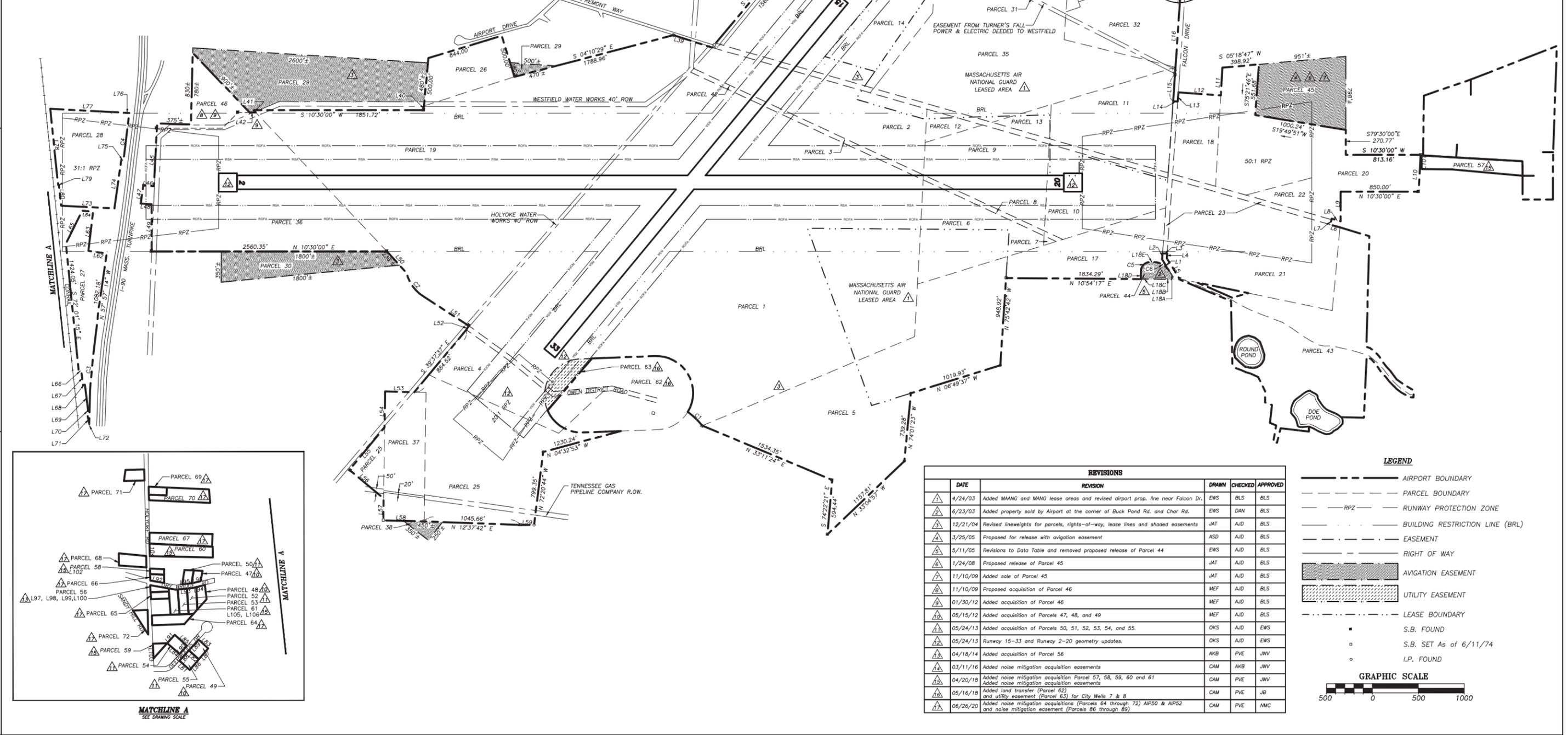
Project No. 195210988  
 Drawing No. 7

Scale AS SHOWN  
 Sheet 7 of 10  
 Revision 0





NOTES:  
 1. PROPERTY LINE INFORMATION REVISED IN REVISION 1 WAS OBTAINED FROM "PLAN OF A PORTION OF WESTFIELD-BARNES MUNICIPAL AIRPORT, CITY OF WESTFIELD, HAMPDEN COUNTY, MASSACHUSETTS" DATED 9/26/01 BY SACKETT SURVEY SERVICES, INC. SHEETS 1 THROUGH 4 OF 4. THIS PLAN IS BASED ON "GRID NORTH" AS A COMPUTED MERIDIAN OF THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM. THE PLANS ARE WERE RECORDED ON IN JUNE OF 2003 AND CAN BE REFERENCED IN BOOK 329 IN PAGES 32 THROUGH 35.  
 2. REVISION 10 AND REVISION 11 INFORMATION WAS TAKEN FROM THE CERTIFIED COPIES FROM THE HAMPDEN COUNTY REGISTRY OF DEEDS, BOOK 111, PAGE 60 (DEEPWOODS DRIVE) AND BOOK 104, PAGE 78 (DRY BRIDGE ROAD). THE PROPERTY BOUNDS WERE PROVIDED BY THE CITY OF WESTFIELD FROM THE CITY OF WESTFIELD GIS. ALL OTHER INFORMATION WAS PROVIDED BY WYLE CORP, EL SEGUNDO, CA 90245.



Revision _____ By _____ Appd _____ Issued _____ By _____ Appd _____	Permit/Seal _____	<p>Stantec Consulting Services Inc.          3 Columbia Circle Suite 6          Albany NY 12203-5158          Tel: (518) 452-4358          www.stantec.com</p> <p>Copyright Reserved  <small>The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.          The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.</small></p>	Client/Project Logo _____	Client/Project WESTFIELD-BARNES REGIONAL AIRPORT  <b>EXHIBIT A</b>  WESTFIELD, MASSACHUSETTS File Name: WESTFIELD-EXHIBIT-A-REVISION-17-24X36 2020.06.26 Dwn. Dsgn. Chkd. YYY.YMM.DD	Title <b>AIRPORT PROPERTY INVENTORY MAP</b>  Project No. 195210763 Scale 1" = 500' Revision Sheet _____ Drawing No. EX-1 1 of 2
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PARCEL 64 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L64A	N 21 26 E	454.05
L64B	S 23 43 E	148.99
L64C	S 21 26 W	349.60
L64D	N 68 34 W	106.06

PARCEL 65 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L65A	N 21 26 E	300
L65B	S 68 34 E	75
L65C	S 21 26 W	200
L65D	N 68 34 W	75

PARCEL 66 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L66A	WESTERLY	73
L66B	NORTHERLY	150
L66C	EASTERLY	73
L66D	SOUTHERLY	150

PARCEL 67 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L67A	N 21 43 E	129.00
L67B	N 24 43 W	875.00
L67C	S 74 31 E	130.00
L67D	S 24 43 W	681.00

PARCEL 68 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L68A	S 23 08 00 W	300.00
L68B	N 71 21 00 W	131.44
L68C	N 24 43 00 E	300.00
L68D	S 71 43 00 E	123.18

PARCEL 69 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L69A	N 24 19 E	200.0
L69B	S 71 43 E	87.0
L69C	S 24 19 W	200.0
L69D	N 71 43 W	87.0

PARCEL 70 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L70A	N 24 19 E	200.0
L70B	N 71 43 W	87.0
L70C	N 24 19 E	451.23
L70D	S 74 31 E	191.0
L70E	S 24 19 W	659
L70F	N 71 43 W	80

PARCEL 71 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L71A	S 24 03 30 E	218.52
L71B	N 65 54 W	128.69
L71C	N 24 08 45 E	2.26
L71D	N 23 36 45 E	200.13
L71E	S 71 43 E	128.89

PARCEL 72 PARCEL I - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L72 IA	SOUTHERLY	11.53
L72 IB	WESTERLY	162.34
L72 IC	NORTHERLY	10
L72 ID	EASTERLY	156.32

PARCEL 72 PARCEL II - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L72 IIA	S 80 40 00 W	298.29
L72 IIB	N 20 28 12 E	156.31
L72 IIC	S 67 37 00 E	259.33

PARCEL 62 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L62A	S 73 18 88 E	0.64
L62B	S 08 20 07 W	782.64
L62C	S 38 58 52 W	744.72
L62D	N 08 20 07 E	686.00
L62E	S 65 14 59 E	49.30
L62F	S 64 57 53 E	172.22

PARCEL 62 - CURVE DATA

CURVE #	RADIUS (FT)	DELTA (Deg/Min/Sec)	LENGTH (FT)
C62C	400.00	S 42 31 12 W 477.31	
C62F	400.00	S 35 23 52 W 267.39	

PARCEL 63 - LINE DATA

LINE #	BEARING (CCW)	DISTANCE (FT)
L63A	S 60 40 32 W	1009.75
L63B	S 38 58 52 E	744.72
L63D	N 08 20 07 E	133.05

PARCEL 63 - CURVE DATA

CURVE #	RADIUS (FT)	DELTA (Deg/Min/Sec)	LENGTH (FT)
C63C	400.00	N 47 28 47 W 1779.33	

LINE DATA - L17

LINE #	BEARING (CCW)	DISTANCE (FT)
L17A	S 75 07 28 E	12.85
L17B	S 01 31 32 W	177.95
L17C	S 88 09 24 E	12.50
L17D	N 84 48 00 E	109.48
L17E	N 04 53 28 W	8.86
L17F	N 85 06 32 E	120.00
L17G	N 85 06 32 E	15.00
L17H	S 04 53 28 E	40.65
L17I	N 85 06 32 E	15.00
L17J	N 85 06 32 E	80.00
L17K	S 04 53 28 E	20.00
L17L	N 85 06 32 E	100.00
L17M	N 85 15 16 E	15.00
L17N	N 04 44 44 W	89.50
L17O	S 04 26 32 W	20.00
L17P	N 04 53 28 W	104.06
L17Q	S 75 07 28 E	21.25
L17R	N 04 53 28 E	36.88
L18A	S 68 24 07 W	109.30
L18B	S 10 54 17 W	147.34
L18C	S 10 54 17 W	200.00
L18D	N 79 05 34 W	85.00
L18E	N 10 53 40 E	39.72

LINE DATA - L17 (continued)

LINE #	BEARING (CCW)	DISTANCE (FT)
L17	S 68 24 07 W	253.27
L18	N 75 31 13 W	68.41
L19	N 14 28 47 E	49.50
L20	S 75 31 13 E	52.99
L21	N 68 24 07 E	283.00
L22	S 26 41 35 W	112.41
L23	N 63 18 25 W	66.00
L24	N 26 41 35 E	100.14
L25	N 79 30 00 W	320.52
L26	N 76 30 13 W	400.54
L27	S 75 31 13 E	100.00
L28	S 14 28 47 W	463.13
L29	N 75 31 13 W	286.84
L30	N 75 38 46 W	870.99
L31	S 75 07 28 E	12.85
L32	S 01 31 32 W	177.95
L33	S 88 09 24 E	12.50
L34	N 84 48 00 E	109.48
L35	N 04 53 28 W	8.86
L36	N 85 06 32 E	120.00
L37	N 85 06 32 E	15.00
L38	S 04 53 28 E	40.65
L39	N 85 06 32 E	15.00
L40	S 04 53 28 E	80.00
L41	S 04 53 28 E	20.00
L42	N 85 06 32 E	100.00
L43	N 85 15 16 E	15.00
L44	N 04 44 44 W	89.50
L45	S 04 26 32 W	20.00
L46	N 04 53 28 W	104.06
L47	S 75 07 28 E	21.25
L48	N 04 53 28 E	36.88
L49	S 68 24 07 W	109.30
L50	S 10 54 17 W	147.34
L51	S 10 54 17 W	200.00
L52	N 79 05 34 W	85.00
L53	N 10 53 40 E	39.72

CURVE DATA

CURVE #	RADIUS (FT)	DELTA (Deg/Min/Sec)	LENGTH (FT)
C1	703.50	S 89 30 00 W	472.60
C2	425.00	S 72 12 59	320.56
C3	N/A	N/A	860.23
C4	N/A	N/A	516.45
C5	100.00	S 90 00 00	157.08
C6	200	S 57 29 50	200.70

TABLE OF NOISE MITIGATION EASEMENTS (NOT SHOWN ON PROPERTY MAP)

NO.	GRANTOR	GRANTEE	INSTRUMENT	ADDRESS	ACQUISITION DATE	H.C.R.#	REMARKS
1	Raymond B. Borden	City of Westfield	Easement	300 Sprague St	06/28/2011	18877/250	AP No. 3-25-0052-34-2010
2	Edward Bezo	City of Westfield	Easement	230 Dry Bridge Rd	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
3	Steven Joseph	City of Westfield	Easement	15 History Ave	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
4	Frank Bando	City of Westfield	Easement	45 Sprinadle St	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
5	Richard Morse	City of Westfield	Easement	15 Sprinadle St	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
6	Michael Ryan	City of Westfield	Easement	31 Sprinadle St	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
7	Edward Casey	City of Westfield	Easement	15 Sprinadle St	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
8	Alberto Fournier	City of Westfield	Easement	33 Sprinadle St	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
9	Steven Borden	City of Westfield	Easement	45 Forest Ave	07/19/2011	18887/253	AP No. 3-25-0052-34-2010
10	David Collier	City of Westfield	Easement	45 Forest Ave	07/19/2011	18887/253	AP No. 3-25-0052-34-2010
11	Hermann Garrett	City of Westfield	Easement	15 Grove Ave	07/26/2011	18974/241	AP No. 3-25-0052-34-2010
12	Henry O'Spender	City of Westfield	Easement	8 Grove Ave	07/26/2011	18974/241	AP No. 3-25-0052-34-2010
13	Richard Borden	City of Westfield	Easement	15 Grove Ave	07/26/2011	18974/241	AP No. 3-25-0052-34-2010
14	Monica Cormier	City of Westfield	Easement	168 Falcon Dr	02/07/2011	18117/282	AP No. 3-25-0052-34-2010
15	John Hagedorn	City of Westfield	Easement	15 Sprinadle St	08/28/2011	18939/201	AP No. 3-25-0052-34-2010
16	Melvin Gould	City of Westfield	Easement	25 Desponds Dr	07/19/2011	18887/253	AP No. 3-25-0052-34-2010
17	John & Kimberly Heath	City of Westfield	Easement	25 Desponds Dr	07/19/2011	18887/253	AP No. 3-25-0052-34-2010
18	Natalie Avery	City of Westfield	Easement	14 Desponds Dr	07/19/2011	18887/253	AP No. 3-25-0052-34-2010
19	John & Sandra Matyszek	City of Westfield	Easement	14 Desponds Dr	07/19/2011	18887/253	AP No. 3-25-0052-34-2010
20	Kimberly Klein	City of Westfield	Easement	26 Desponds Dr	12/23/2011	19175/265	AP No. 3-25-0052-34-2010
21	Anthony & Louise Moran	City of Westfield	Easement	11 Grove Ave	12/23/2011	19175/265	AP No. 3-25-0052-34-2010
22	Beatrice Motos	City of Westfield	Easement	11 Grove Ave	12/23/2011	19175/265	AP No. 3-25-0052-34-2010
23	Heleny & Monica Tobus	City of Westfield	Easement	25 Back Pond Rd	10/16/2011	20059/240	AP No. 3-25-0052-34-2010
24	Thomas & Nancy Grotzok	City of Westfield	Easement	25 Back Pond Rd	10/16/2011	20059/240	AP No. 3-25-0052-34-2010
25	Phis & Barbara Wolfe	City of Westfield	Easement	25 Back Pond Rd	10/16/2011	20059/240	AP No. 3-25-0052-34-2010
26	Lawrence Borsolotta	City of Westfield	Easement	14 Forest Ave	11/23/2011	19254/261	AP No. 3-25-0052-34-2010
27	Line Sileschich	City of Westfield	Easement	25 Back Pond Rd	10/16/2011	20059/240	AP No. 3-25-0052-34-2010
28	Line Sileschich	City of Westfield	Easement	25 Back Pond Rd	10/16/2011	20059/240	AP No. 3-25-0052-34-2010
29	John & Victoria Kellough	City of Westfield	Easement	7 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
30	Edward Wilson	City of Westfield	Easement	344 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
31	Paul & Victoria Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
32	George & Michelle Fortier	City of Westfield	Easement	344 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
33	John & Kim Berger	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
34	Ronald & Paula Woldup	City of Westfield	Easement	816 North St	03/01/2011	17209/172	AP No. 3-25-0052-34-2010
35	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
36	Walter & Nicolene Kueper	City of Westfield	Easement	12 Av. Ave	10/15/2011	18489/244	AP No. 3-25-0052-34-2010
37	David & Kathleen Kitchner	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
38	Conrad Deltale	City of Westfield	Easement	17 Hickory St	03/01/2011	17209/172	AP No. 3-25-0052-34-2010
39	Lorraine Bido	City of Westfield	Easement	42 Old Stone Rd	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
40	John & Nicole Papin	City of Westfield	Easement	454 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
41	George & Holly Hagedorn	City of Westfield	Easement	15 Grove Ave	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
42	Sandra & Melissa Burpee	City of Westfield	Easement	814 North St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
43	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
44	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
45	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
46	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
47	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
48	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
49	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
50	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
51	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
52	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
53	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
54	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
55	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
56	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
57	John & Nancy Kellough	City of Westfield	Easement	15 Sprinadle St	08/13/2011	18301/243	AP No. 3-25-0052-34-2010
58							