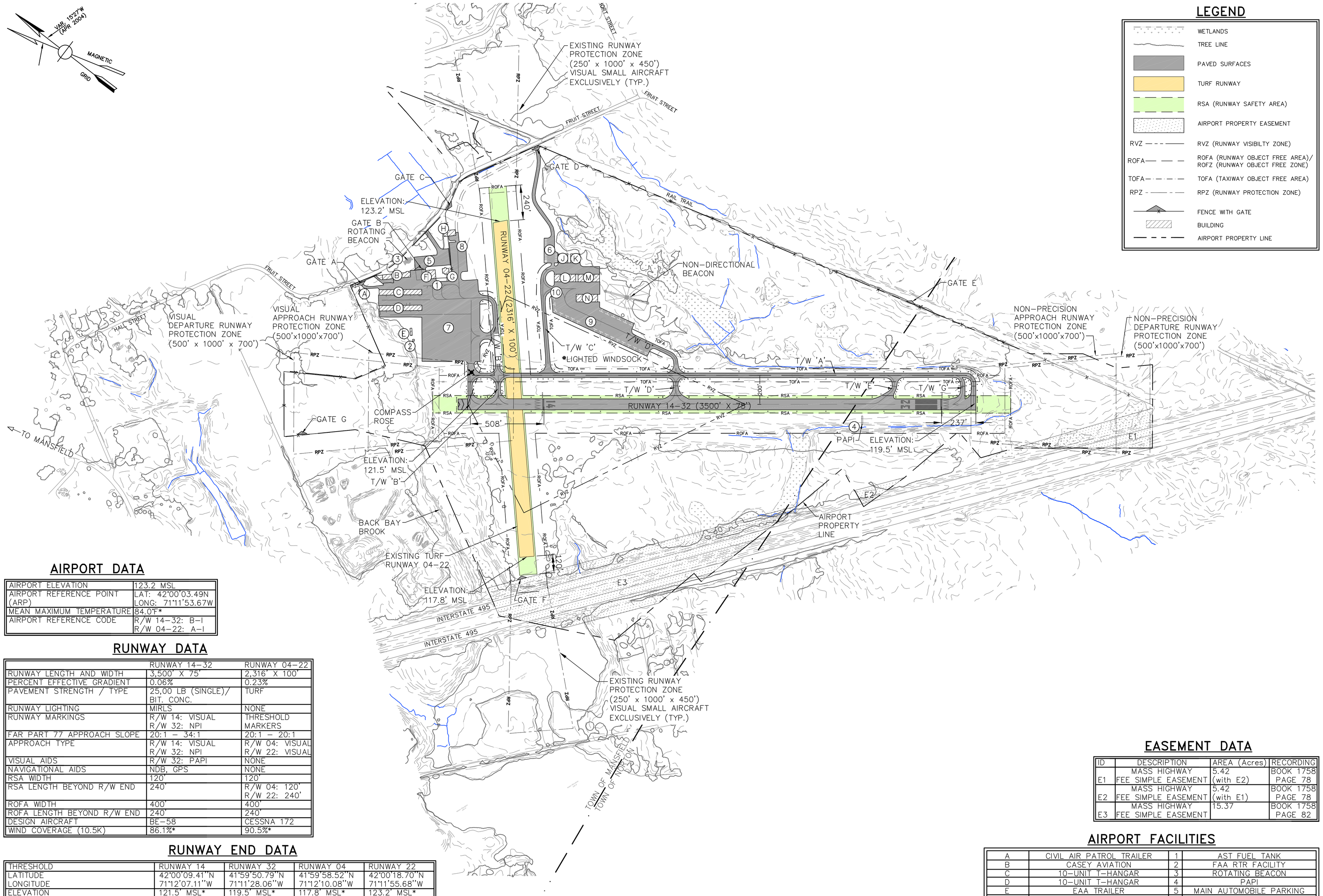

LEGEND

- WETLANDS
- TREE LINE
- PAVED SURFACES
- TURF RUNWAY
- RSA (RUNWAY SAFETY AREA)
- AIRPORT PROPERTY EASEMENT
- RVZ — RVZ (RUNWAY VISIBILTY ZONE)
- ROFA — ROFA (RUNWAY OBJECT FREE AREA)/ ROFZ (RUNWAY OBJECT FREE ZONE)
- TOFA — TOFA (TAXIWAY OBJECT FREE AREA)
- RPZ — RPZ (RUNWAY PROTECTION ZONE)
- FENCE WITH GATE
- BUILDING
- AIRPORT PROPERTY LINE

AIRPORT DATA

AIRPORT ELEVATION	123.2 MSL
AIRPORT REFERENCE POINT (ARP)	LAT: 42°00'03.49N LONG: 71°11'53.67W
MEAN MAXIMUM TEMPERATURE	84.0°F*
AIRPORT REFERENCE CODE	R/W 14-32: B-I R/W 04-22: A-I

RUNWAY DATA

	RUNWAY 14-32	RUNWAY 04-22
RUNWAY LENGTH AND WIDTH	3,500' X 75'	2,316' X 100'
PERCENT EFFECTIVE GRADIENT	0.06%	0.23%
PAVEMENT STRENGTH / TYPE	25,00 LB (SINGLE)/ BIT. CONC.	TURF
RUNWAY LIGHTING	MIRLS	NONE
RUNWAY MARKINGS	R/W 14: VISUAL R/W 32: NPI	THRESHOLD MARKERS
FAR PART 77 APPROACH SLOPE	20:1 - 34:1	20:1 - 20:1
APPROACH TYPE	R/W 14: VISUAL R/W 32: NPI	R/W 04: VISUAL R/W 22: VISUAL
VISUAL AIDS	R/W 32: PAPI	NONE
NAVIGATIONAL AIDS	NDB, GPS	NONE
RSA WIDTH	120'	120'
RSA LENGTH BEYOND R/W END	240'	R/W 04: 120' R/W 22: 240'
ROFA WIDTH	400'	400'
ROFA LENGTH BEYOND R/W END	240'	240'
DESIGN AIRCRAFT	BE-58	CESSNA 172
WIND COVERAGE (10.5K)	86.1%*	90.5%*

RUNWAY END DATA

THRESHOLD	RUNWAY 14	RUNWAY 32	RUNWAY 04	RUNWAY 22
LATITUDE LONGITUDE	42°00'09.41"N 71°12'07.11"W	41°59'50.79"N 71°11'28.06"W	41°59'58.52"N 71°12'10.08"W	42°00'18.70"N 71°11'55.68"W
ELEVATION	121.5' MSL*	119.5' MSL*	117.8' MSL*	123.2' MSL*
DISPLACED THRESHOLD LATITUDE LONGITUDE	42°00'06.71"N 71°12'01.45"W	41°59'52.05"N 71°11'30.70"W	NONE	NONE
DISPLACED THRESHOLD ELEVATION	120.75' MSL*	119.5' MSL*	N/A	N/A
THRESHOLD SITING DISPLACEMENT	508' DISP.	237' DISP.	N/A	N/A

*SOURCE: HNTB ALP (2004)

EASEMENT DATA

ID	DESCRIPTION	AREA (Acres)	RECORDING
E1	MASS HIGHWAY FEE SIMPLE EASEMENT	5.42 (with E2)	BOOK 1758 PAGE 78
E2	MASS HIGHWAY FEE SIMPLE EASEMENT	5.42 (with E1)	BOOK 1758 PAGE 78
E3	MASS HIGHWAY FEE SIMPLE EASEMENT	15.37	BOOK 1758 PAGE 82

AIRPORT FACILITIES

A	CIVIL AIR PATROL TRAILER	1	AST FUEL TANK
B	CASEY AVIATION	2	FAA RTR FACILITY
C	10-UNIT T-HANGAR	3	ROTATING BEACON
D	10-UNIT T-HANGAR	4	PAPI
E	EAA TRAILER	5	MAIN AUTOMOBILE PARKING
F	GREEN HANGAR	6	QUADRANT FOUR AUTO PARKING
G	ADMINISTRATION BUILDING	7	TERMINAL APRON
H	SRE BUILDING	8	EAST APRON
J & K	CORPORATE HANGARS	9	QUADRANT FOUR APRON
L, M & N	MANSFIELD LANDING T-HANGARS	10	HANGAR APRON

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PROJECT
AIRPORT MASTER PLAN UPDATE
MANSFIELD AIRPORT COMMISSION
AIP NO. 3-25-0028-22-2009

OWNER
MANSFIELD MUNICIPAL AIRPORT
MANSFIELD, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY

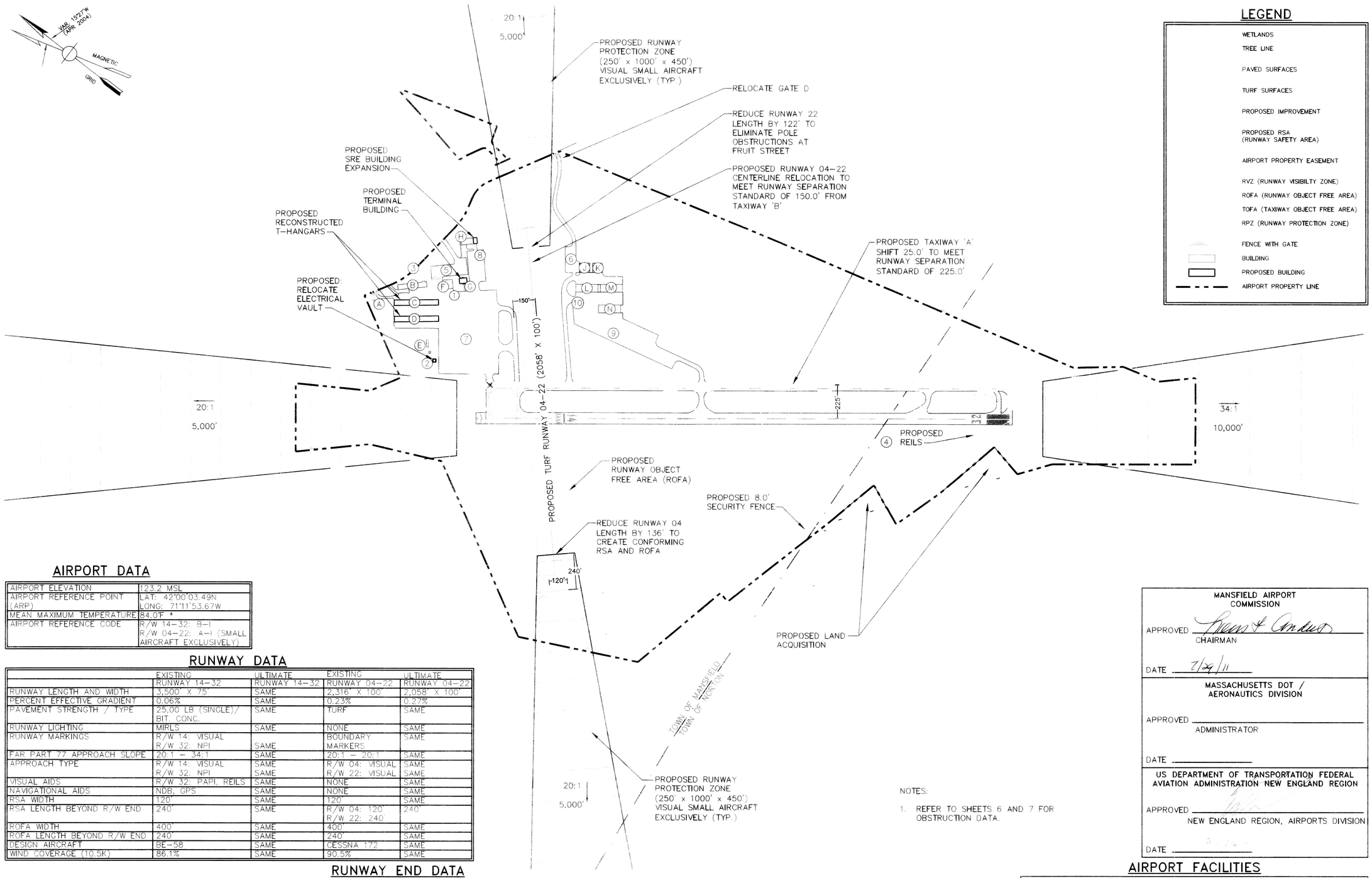
PROJECT NO.	776350
CADD FILE	SHEET 2
DESIGNED BY	AJD
DRAWN BY	SEH
CHECKED BY	AJD
DATE	AUGUST 2011
DRAWING SCALE	1"=300'

GRAPHIC SCALE
0 150 300 600
SCALE: 1" = 300'

SHEET TITLE

EXISTING FACILITIES PLAN

SHEET
2



LEGEND

- WETLANDS
- TREE LINE
- PAVED SURFACES
- TURF SURFACES
- PROPOSED IMPROVEMENT
- PROPOSED RSA (RUNWAY SAFETY AREA)
- AIRPORT PROPERTY EASEMENT
- RVZ (RUNWAY VISIBILITY ZONE)
- ROFA (RUNWAY OBJECT FREE AREA)
- TOFA (TAXIWAY OBJECT FREE AREA)
- RPZ (RUNWAY PROTECTION ZONE)
- FENCE WITH GATE
- BUILDING
- PROPOSED BUILDING
- AIRPORT PROPERTY LINE

AIRPORT DATA

AIRPORT ELEVATION	123.2' MSL
AIRPORT REFERENCE POINT (ARP)	LAT: 42°00'03.49"N LONG: 71°11'53.67"W
MEAN MAXIMUM TEMPERATURE	84.0°F *
AIRPORT REFERENCE CODE	R/W 14-32: B-I R/W 04-22: A-I (SMALL AIRCRAFT EXCLUSIVELY)

RUNWAY DATA

	EXISTING	ULTIMATE	EXISTING	ULTIMATE
	RUNWAY 14-32	RUNWAY 14-32	RUNWAY 04-22	RUNWAY 04-22
RUNWAY LENGTH AND WIDTH	3,500' X 75'	SAME	2,316' X 100'	2,058' X 100'
PERCENT EFFECTIVE GRADIENT	0.06%	SAME	0.23%	0.27%
PAVEMENT STRENGTH / TYPE	25.00 LB (SINGLE)/ BIT. CONC.	SAME	TURF	SAME
RUNWAY LIGHTING	MIRLS	SAME	NONE	SAME
RUNWAY MARKINGS	R/W 14: VISUAL R/W 32: NPI	SAME	BOUNDARY MARKERS	SAME
FAR PART 77 APPROACH SLOPE	20:1 - 34:1	SAME	20:1 - 20:1	SAME
APPROACH TYPE	R/W 14: VISUAL R/W 32: NPI	SAME SAME	R/W 04: VISUAL R/W 22: VISUAL	SAME SAME
VISUAL AIDS	R/W 32: PAPI, REILS	SAME	NONE	SAME
NAVIGATIONAL AIDS	NDB, GPS	SAME	NONE	SAME
RSA WIDTH	120'	SAME	120'	SAME
RSA LENGTH BEYOND R/W END	240'	SAME	R/W 04: 120' R/W 22: 240'	240'
ROFA WIDTH	400'	SAME	400'	SAME
ROFA LENGTH BEYOND R/W END	240'	SAME	240'	SAME
DESIGN AIRCRAFT	BE-58	SAME	CESSNA 172	SAME
WIND COVERAGE (10.5K)	86.1%	SAME	90.5%	SAME

RUNWAY END DATA

THRESHOLD	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
	RUNWAY 14	RUNWAY 14	RUNWAY 32	RUNWAY 32	RUNWAY 04	RUNWAY 04	RUNWAY 22	RUNWAY 22
LATITUDE	42°00'09.41"N	SAME	41°59'50.79"N	SAME	41°59'58.52"N	41°59'59.39"N	42°00'17.93"N	42°00'17.35"N
LONGITUDE	71°12'07.11"W	SAME	71°11'28.06"W	SAME	71°12'10.08"W	71°12'08.45"W	71°11'56.25"W	71°11'55.67"W
ELEVATION	121.5' MSL*	SAME	119.5' MSL*	SAME	117.8' MSL*	117.94' MSL	123.2' MSL*	123.42' MSL
DISPLACED THRESHOLD LATITUDE	42°00'06.71"N	SAME	41°59'52.05"N	REMOVED	NONE	NONE	NONE	NONE
DISPLACED THRESHOLD LONGITUDE	71°12'01.45"W	SAME	71°11'30.70"W					
DISPLACED THRESHOLD ELEVATION	120.75' MSL	SAME	119.5' MSL	N/A	N/A	N/A	N/A	N/A
THRESHOLD SITING DISPLACEMENT	508' DISP.	SAME	237' DISP.	N/A	N/A	N/A	N/A	N/A

*SOURCE: HNTB ALP (2004)

NOTES:

1. REFER TO SHEETS 6 AND 7 FOR OBSTRUCTION DATA.

AIRPORT FACILITIES

A	CIVIL AIR PATROL TRAILER	1	AST FUEL TANK
B	CASEY AVIATION	2	FAA RTR FACILITY
C	10-UNIT T-HANGAR	3	ROTATING BEACON
D	10-UNIT T-HANGAR	4	PAPI
E	EAA TRAILER	5	MAIN AUTOMOBILE PARKING
F	GREEN HANGAR	6	QUADRANT FOUR AUTO PARKING
G	ADMINISTRATION BUILDING	7	TERMINAL APRON
H	SRE BUILDING	8	EAST APRON
J & K	CORPORATE HANGARS	9	QUADRANT FOUR APRON
L, M & N	MANSFIELD LANDING T-HANGARS	10	HANGAR APRON

MANSFIELD AIRPORT COMMISSION

APPROVED _____
CHAIRMAN

DATE 7/29/11

MASSACHUSETTS DOT / AERONAUTICS DIVISION

APPROVED _____
ADMINISTRATOR

DATE _____

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION NEW ENGLAND REGION

APPROVED _____
NEW ENGLAND REGION, AIRPORTS DIVISION

DATE _____

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Boston Baltimore Orlando San Francisco

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PROJECT
AIRPORT MASTER PLAN UPDATE
MANSFIELD AIRPORT COMMISSION
AIP NO. 3-25-0028-22-2009

OWNER
MANSFIELD MUNICIPAL AIRPORT
MANSFIELD, MASSACHUSETTS

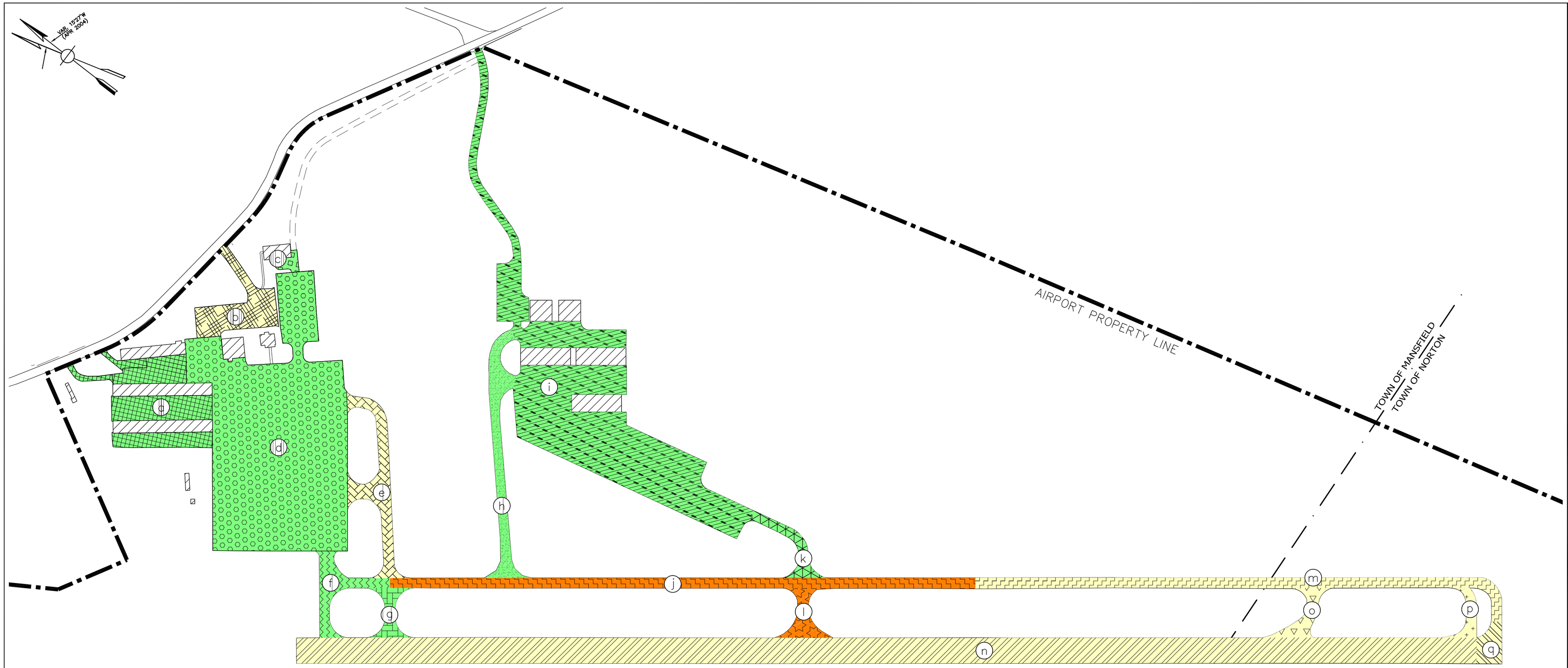
NO.	DATE	DESCRIPTION	BY
1.	6/28/11	ADD. NOTES	MEF

PROJECT NO.	776350
CADD FILE	SHEET 3
DESIGNED BY	AJD
DRAWN BY	SEH
CHECKED BY	AJD
DATE	AUGUST 2011
DRAWING SCALE	1"=300'

GRAPHIC SCALE
0 150 300 600
SCALE: 1" = 300'

SHEET TITLE
ULTIMATE AIRPORT LAYOUT PLAN

SHEET
3
3 OF 8



PAVEMENT HISTORY DATA

(a) T-HANGAR TAXILANES
REPAVED IN 2007

(b) TERMINAL BUILDING ACCESS ROAD & PARKING LOT
ACCESS ROAD RECONSTRUCTED IN 1997/98
PARKING LOT REPAVED & EXPANDED IN 1997/98

(c) SRE BUILDING PAVEMENT
CONSTRUCTED IN 2005

(d) MAIN & EAST TERMINAL APRON
RECONSTRUCTED IN 2000

(e) TAXIWAY 'B'
CONSTRUCTED IN 1994

(f) PORTION OF TAXIWAY 'A'
REPAVED IN 2004

(g) PORTION OF TAXIWAY 'B'
REPAVED IN 2004

(h) TAXIWAY 'C'
CONSTRUCTED IN 2005

(i) QUADRANT FOUR APRON ACCESS RD & PARKING LOT
CONSTRUCTED IN 2005

(j) TAXIWAY 'A'
CONSTRUCTED AT 3,000' IN 1961
EXTENDED TO 3,500' IN 1969
WESTERN PORTION RECONSTRUCTED IN 1981

(k) TAXIWAY 'D'
CONSTRUCTED IN 2005

(l) PORTION OF TAXIWAY 'D'
REPAVED IN 1981

(m) EASTERN PORTION OF TAXIWAY 'A'
RECONSTRUCTED IN 1975 AND 1994

(n) RUNWAY 14-32
CONSTRUCTED AT 3,000' IN 1955
EXTENDED TO 3,500' IN 1969
RECONSTRUCTED IN 1993

(o) TAXIWAY 'E'
CONSTRUCTED IN 1994

(p) TAXIWAY 'G'
CONSTRUCTED IN 1994

(q) RUNWAY 32 END
REPAVED IN 1999

LEGEND

- BUILDING
- 0 – 10 YEARS OLD AS OF 2010
- 11 – 20 YEARS OLD AS OF 2010
- OVER 20 YEARS OLD AS OF 2010

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PROJECT

AIRPORT MASTER PLAN UPDATE
MANSFIELD AIRPORT COMMISSION
AIP NO. 3-25-0028-22-2009

OWNER

MANSFIELD MUNICIPAL AIRPORT
MANSFIELD, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY

PROJECT NO.	776350
CADD FILE	SHEET 4
DESIGNED BY	AJD
DRAWN BY	SEH
CHECKED BY	AJD
DATE	AUGUST 2011
DRAWING SCALE	1"=150'

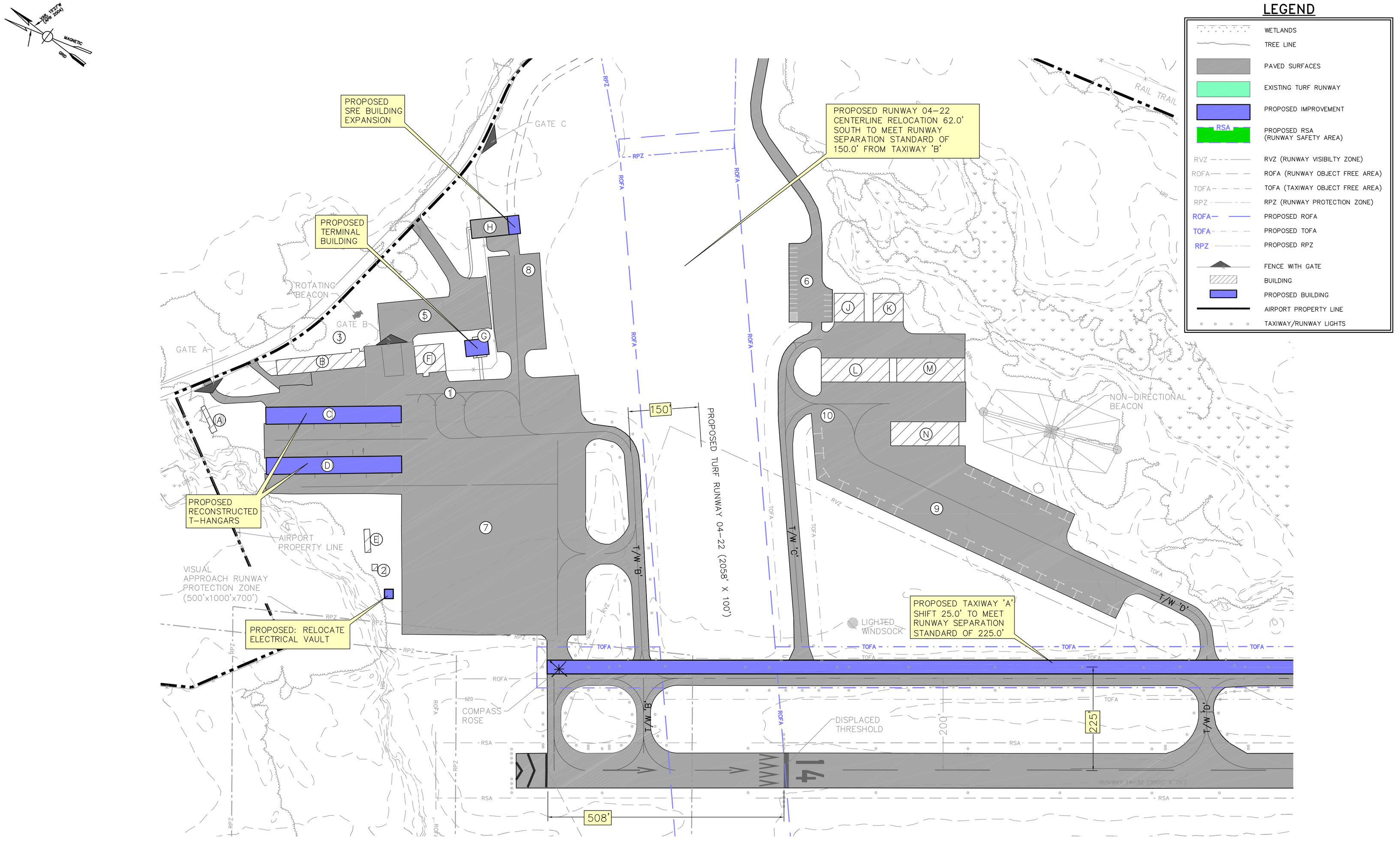
GRAPHIC SCALE
0 75 150 300
SCALE: 1" = 150'

SHEET TITLE

PAVEMENT HISTORY PLAN

SHEET

4



LEGEND

- WETLANDS
- TREE LINE
- PAVED SURFACES
- EXISTING TURF RUNWAY
- PROPOSED IMPROVEMENT
- PROPOSED RSA (RUNWAY SAFETY AREA)
- RVZ — RVZ (RUNWAY VISIBILTY ZONE)
- ROFA — ROFA (RUNWAY OBJECT FREE AREA)
- TOFA — TOFA (TAXIWAY OBJECT FREE AREA)
- RPZ — RPZ (RUNWAY PROTECTION ZONE)
- PROPOSED ROFA
- PROPOSED TOFA
- PROPOSED RPZ
- FENCE WITH GATE
- BUILDING
- PROPOSED BUILDING
- AIRPORT PROPERTY LINE
- TAXIWAY/RUNWAY LIGHTS

AIRPORT FACILITIES

A	CIVIL AIR PATROL TRAILER	1	AST FUEL TANK
B	CASEY AVIATION	2	FAA RTR FACILITY
C	10-UNIT T-HANGAR	3	ROTATING BEACON
D	10-UNIT T-HANGAR	4	PAPI
E	EAA TRAILER	5	MAIN AUTOMOBILE PARKING
F	GREEN HANGAR	6	QUADRANT FOUR AUTO PARKING
G	ADMINISTRATION BUILDING	7	TERMINAL APRON
H	SRE BUILDING	8	EAST APRON
J & K	CORPORATE HANGARS	9	QUADRANT FOUR APRON
L, M & N	MANSFIELD LANDING T-HANGARS	10	HANGAR APRON

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AIRPORT MASTER PLAN UPDATE
MANSFIELD AIRPORT COMMISSION
AIP NO. 3-25-0028-22-2009

OWNER
MANSFIELD MUNICIPAL AIRPORT
MANSFIELD, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY

PROJECT NO.	776350
CADD FILE	SHEET 5
DESIGNED BY	AJD
DRAWN BY	SEH
CHECKED BY	AJD
DATE	AUGUST 2011
DRAWING SCALE	1"=100'

GRAPHIC SCALE
0 50 100 200
SCALE: 1" = 100'

SHEET TITLE

TERMINAL AREA PLAN

SHEET

5

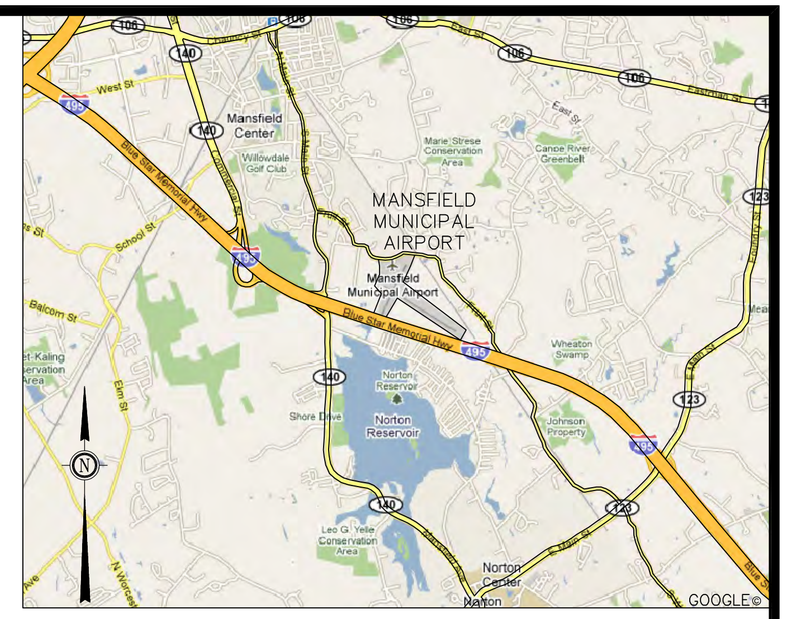
5 OF 8

LOCATION MAP

30 0 30 60

SCALE IN MILES

MANSFIELD MUNICIPAL AIRPORT
MANSFIELD, MASSACHUSETTS



VICINITY MAP

4500 0 2250 4500

SCALE IN FEET

AIRPORT MASTER PLAN UPDATE

AIP PROJECT NO.
3-25-0028-22-2009

AUGUST 2011

TABLE OF CONTENTS

SHEET	DESCRIPTION
1	COVER SHEET
2	EXISTING FACILITIES PLAN
3	ULTIMATE AIRPORT LAYOUT PLAN
4	PAVEMENT HISTORY PLAN
5	TERMINAL AREA PLAN
6	RUNWAY 14 AND RUNWAY 32 APPROACH PLAN AND PROFILE
7	RUNWAY 4 AND RUNWAY 22 APPROACH PLAN AND PROFILE
8	14 CFR PART 77 IMAGINARY SURFACES PLAN

PREPARED BY

GALE

Boston Baltimore Orlando San Francisco

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SHEET NO.

1

1 OF 8