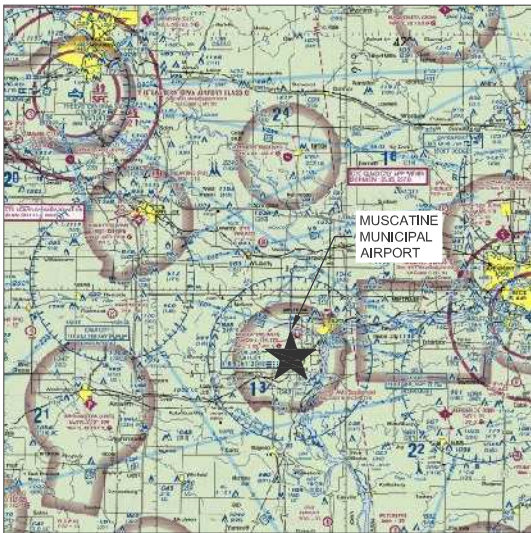


AIRPORT LAYOUT PLAN

MUSCATINE MUNICIPAL AIRPORT

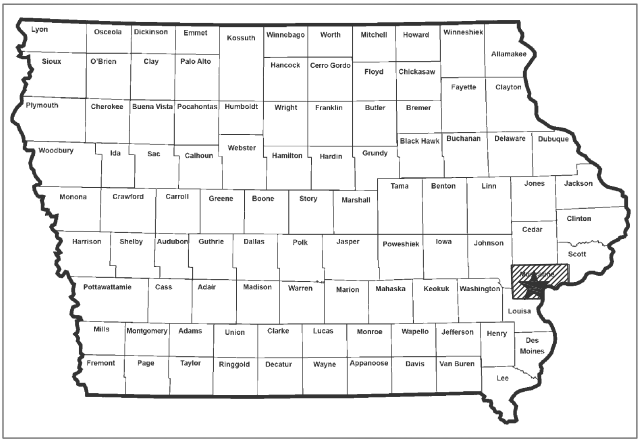
MUSCATINE, IOWA



LOCATION MAP



VICINITY MAP



MUSCATINE COUNTY, IOWA



MUSCATINE MUNICIPAL AIRPORT	
5701 U.S. HWY 61	
MUSCATINE, IA 52761	
(563) 263-8672	
INDEX OF SHEETS	
SHEET NO	DESCRIPTION
1	TITLE SHEET
2	AIRPORT LAYOUT PLAN
3	AIRPORT DATA SHEET
4 - 5	AIRPORT AIRSPACE PLAN
6	RUNWAY 24 INNER APPROACH SURFACE
7	RUNWAY 06 INNER APPROACH SURFACE
8	RUNWAY 12 INNER APPROACH SURFACE
9	RUNWAY 30 INNER APPROACH SURFACE
10	OBSTRUCTION TABLES
11	RUNWAY 6/24 CENTERLINE PLAN AND PROFILE
12	RUNWAY 12/30 CENTERLINE PLAN AND PROFILE
13 - 14	TERMINAL AREA PLAN
15	LAND USE PLAN
16	AIRPORT PROPERTY MAP

AIRPORT DATA TABLE		
	EXISTING	ULTIMATE
AIRPORT REFERENCE CODE (ARC)	B-II	C-II
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH	86.2	86.2
AIRPORT ELEVATION	547.1	547.1
AIRPORT NAVIGATIONAL AIDS	DME, LOC, GS, TVOR	DME, LOC, GS, TVOR
AIRPORT REFERENCE POINT (ARP)	LAT 41° 22' 04" N LONG 091° 08' 54" W	LAT 41° 22' 04" N LONG 091° 08' 54" W
MISCELLANEOUS FACILITIES	PAPI, AWOS, MALSR, REIL, VASI	PAPI, AWOS, MALSR, REIL, VASI
AIRPORT MAGNETIC VARIATION, DATE AND SOURCE	1° 7' W changing by 0° 5' W per year (03-16-2017, NOAA)	1° 7' W changing by 0° 5' W per year (03-16-2017, NOAA)
NPIAS SERVICE LEVEL	REGIONAL	REGIONAL
STATE EQUIVALENT SERVICE ROLE	ENHANCED SERVICE	ENHANCED SERVICE

PLANS PREPARED FOR:



CITY COUNCIL:

MAYOR: Diana L. Broderson
1ST WARD: Philip Fitzgerald
2nd WARD: Osmond Malcolm
3rd WARD: Tom Spread
4th WARD: Nadine Brockert
5th WARD: Allen Harvey
AT LARGE: Kelcey Brackett
AT LARGE: Santos Saucedo

AIRPORT ADVISORY COMMISSION:

Steve Bradford
Stacy Lewis
Nadine Brockert
Jerry Page
Andrea Kreitner
Mohammad Ali Pasha
Dave Gobin,
Community Development Director

SPONSOR APPROVAL

MUSCATINE, IOWA
Steve Bradford

APPROVED BY
City Administrator

TITLE
02-19-2019

DATE

CLIENT: CITY OF MUSCATINE
215 SYCAMORE STREET
MUSCATINE, IOWA 52761
PHONE: (563) 262-4141

ANDERSON BOGERT

DRAWN BY: MJP
DATE: 09/29/2017
PROJECT NO. 215081

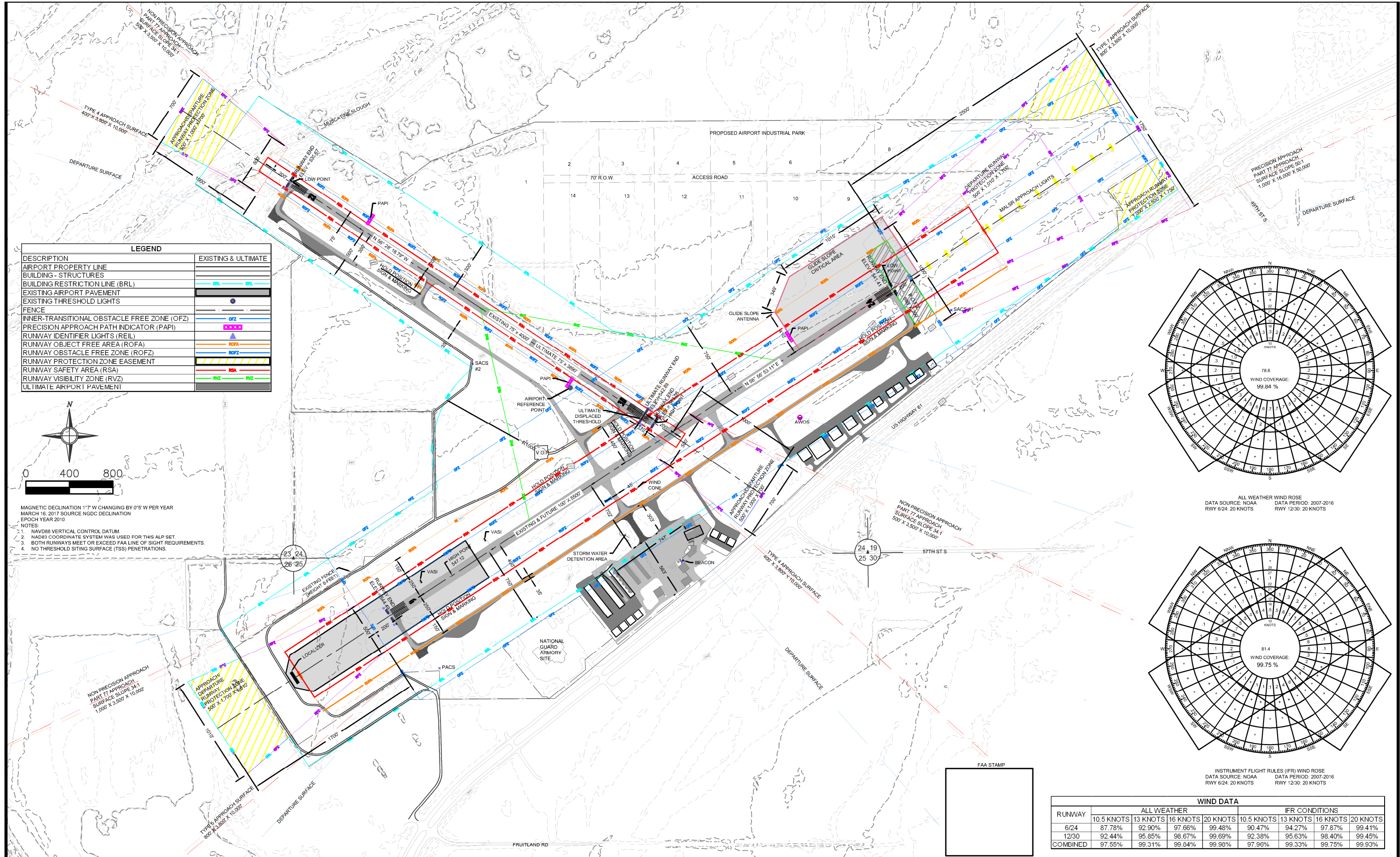
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SCALE: SEE SCALE BAR

MUSCATINE
AIRPORT LAYOUT PLAN

TITLE SHEET

SHEET NO.
1
OF
16

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NO.	REVISION DESCRIPTION	APPROVED	DATE

CLIENT: CITY OF MUSCATINE
215 SYCAMORE STREET
MUSCATINE, IOWA 52761
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DATE: 09/29/2017
PROJECT NO. 215081

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RUNWAY DATA TABLE				
	RUNWAY 6/24		RUNWAY 12/30	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
	B-II-2400	C-II-2400	B-II-5000	B-II-5000
RUNWAY DESIGN CODE (RDC)				
RUNWAY VISUAL RANGE (RVR)	RWY 6: 5,000 RWY 24: 2,400	RWY 6: 5,000 RWY 24: 2,400	5,000	5,000
PAVEMENT TYPE	PC CONCRETE	PC CONCRETE	PC CONCRETE	PC CONCRETE
PAVEMENT STRENGTH*	PCN 20/R/C/W/T	PCN 20/R/C/W/T	PCN 9/R/C/W/T	PCN 9/R/C/W/T
PAVEMENT SURFACE TREATMENT	GROOVED	GROOVED	GROOVED	GROOVED
RUNWAY GRADIENT (%)	0.43%	0.43%	0.20%	0.20%
WIND COVERAGE (%)	97.66% (16 KT)	97.66% (16 KT)	95.85% (13 KT)	95.85% (13 KT)
RUNWAY LENGTH AND WIDTH	5,500' X 100'	5,500' X 100'	4,000' X 75'	3890' X 75'
DISPLACED THRESHOLD	N/A	N/A	N/A	YES
RUNWAY SAFETY AREA (RSA) WIDTH	500'	500'	150'	150'
RUNWAY SAFETY AREA (RSA)				
LENGTH BEYOND RUNWAY END				
RUNWAY END COORDINATES, LATITUDE	RWY 6: 41° 21' 44.27" N RWY 24: 41° 22' 12.66" N	RWY 6: 41° 21' 44.27" N RWY 24: 41° 22' 12.66" N	RWY 12: 41° 22' 23.84" N RWY 30: 41° 22' 01.12" N	RWY 12: 41° 22' 23.84" N RWY 30: 41° 22' 01.12" N
RUNWAY END COORDINATES, LONGITUDE	RWY 6: 91° 09' 15.98" W RWY 24: 91° 08' 14.48" W	RWY 6: 91° 09' 15.98" W RWY 24: 91° 08' 14.48" W	RWY 12: 91° 09' 26.64" W RWY 30: 91° 08' 43.70" W	RWY 12: 91° 09' 26.64" W RWY 30: 91° 08' 43.70" W
RUNWAY LIGHTING	MIRL	MIRL	MIRL	MIRL
RUNWAY PROTECTION ZONE (RPZ) APPROACH LENGTH	RWY 6: 1,700' RWY 24: 2,500'	RWY 6: 1,700' RWY 24: 2,500'	RWY 12: 1,000' RWY 30: 1,000'	RWY 12: 1,000' RWY 30: 1,000'
RUNWAY PROTECTION ZONE (RPZ) APPROACH OUTER WIDTH	RWY 6: 500' RWY 24: 1,000'	RWY 6: 500' RWY 24: 1,000'	RWY 12: 500' RWY 30: 500'	RWY 12: 500' RWY 30: 500'
RUNWAY PROTECTION ZONE (RPZ) APPROACH OUTER WIDTH	RWY 6: 1,010' RWY 24: 1,750'	RWY 6: 1,010' RWY 24: 1,750'	RWY 12: 700' RWY 30: 700'	RWY 12: 700' RWY 30: 700'
RUNWAY PROTECTION ZONE (RPZ) DEPARTURE LENGTH	RWY 6: 1,700' RWY 24: 1,700'	RWY 6: 1,700' RWY 24: 1,700'	RWY 12: 1,000' RWY 30: 1,000'	RWY 12: 1,000' RWY 30: 1,000'
RUNWAY PROTECTION ZONE (RPZ) DEPARTURE INNER WIDTH	RWY 6: 500' RWY 24: 500'	RWY 6: 500' RWY 24: 500'	RWY 12: 500' RWY 30: 500'	RWY 12: 500' RWY 30: 500'
RUNWAY PROTECTION ZONE (RPZ) DEPARTURE OUTER WIDTH	RWY 6: 1,010' RWY 24: 1,010'	RWY 6: 1,010' RWY 24: 1,010'	RWY 12: 700' RWY 30: 700'	RWY 12: 700' RWY 30: 700'
RUNWAY MARKING	PRECISION	PRECISION	NON-PRECISION	NON-PRECISION
14 CFR PART 77 APPROACH CATEGORY	RWY 6: C/34:1 RWY 24: PIR/50:1	RWY 6: C/34:1 RWY 24: PIR/50:1	C/34:1	C/34:1
APPROACH TYPE	RWY 6: OTHER THAN UTIL - NON-PRECISION RWY 24: PRECISION	RWY 6: OTHER THAN UTIL - NON-PRECISION RWY 24: PRECISION	OTHER THAN UTILITY - NON-PRECISION	OTHER THAN UTILITY - NON-PRECISION
VISIBILITY MINIMUMS	RWY 6: 1 MILE RWY 24: 1/2 MILE	3/4 MI < RWY 6 < 1 MI 1/2 MI < RWY 24 < 3/4 MI	NOT < 1 MILE	NOT < 1 MILE
TYPE OF AERONAUTICAL SURVEY USED	VERTICALLY GUIDED	VERTICALLY GUIDED	VERTICALLY GUIDED	VERTICALLY GUIDED
RUNWAY DEPARTURE SURFACE, LENGTH	10,200'	10,200'	10,200'	10,200'
RUNWAY DEPARTURE SURFACE, INNER WIDTH	1,000'	1,000'	1,000'	1,000'
RUNWAY DEPARTURE SURFACE, OUTER WIDTH	6,466'	6,466'	6,466'	6,466'
RUNWAY OBJECT FREE AREA (ROFA) WIDTH	800'	800'	500'	500'
RUNWAY OBJECT FREE AREA (ROFA) LENGTH BEYOND RUNWAY	1,000'	1,000'	300'	300'
RUNWAY OBSTACLE FREE ZONE (ROFZ) WIDTH	400'	400'	250'	250'
RUNWAY OBSTACLE FREE ZONE (ROFZ) LENGTH BEYOND RUNWAY END	200'	200'	200'	200'
INNER-APPROACH OBSTACLE FREE ZONE WIDTH	RWY 24: 400'	RWY 24: 400'	N/A	N/A
INNER-APPROACH OBSTACLE FREE ZONE LENGTH BEYOND RUNWAY END	RWY 24: 200'	RWY 24: 200'	N/A	N/A
INNER-APPROACH OBSTACLE FREE ZONE LENGTH BEYOND LAST ALS	RWY 24: 200'	RWY 24: 200'	N/A	N/A
PRECISION OBSTACLE FREE ZONE WIDTH	RWY 24: 800'	RWY 24: 800'	N/A	N/A
PRECISION OBSTACLE FREE ZONE LENGTH	RWY 24: 200'	RWY 24: 200'	N/A	N/A
VISUAL AND INSTRUMENT NAVAIDS	RWY 6: REILs, VASI RWY 24: GS, PAPIs, MALSR	RWY 6: REILs, VASI RWY 24: GS, PAPIs, MALSR	PAPIs & REILs	PAPIs & REILs

*PAVEMENT STRENGTH

RUNWAY 6-24
CORRESPONDING SINGLE WHEEL AIRCRAFT WEIGHT: 58,000 POUNDS
CORRESPONDING DUAL WHEEL AIRCRAFT WEIGHT: 73,000 POUNDS

RUNWAY 12-30
CORRESPONDING SINGLE WHEEL AIRCRAFT WEIGHT: 28,500 POUNDS
CORRESPONDING DUAL WHEEL AIRCRAFT WEIGHT: 39,000 POUNDS

DECLARED DISTANCES TABLE		
	RUNWAY 6/24	
	EXISTING	ULTIMATE
TAKE OFF RUN AVAILABLE (TORA)	5,500'	5,500'
TAKE OFF DISTANCE AVAILABLE (TODA)	5,500'	5,500'
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	5,500'	5,500'
LANDING DISTANCE AVAILABLE (LDA)	5,500'	5,500'
	RUNWAY 12/30	
	EXISTING	ULTIMATE
TAKE OFF RUN AVAILABLE (TORA)	3800'/3890'	3800'/3890'
TAKE OFF DISTANCE AVAILABLE (TODA)	3800'/3890'	3800'/3890'
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	3800'/3890'	3800'/3890'
LANDING DISTANCE AVAILABLE (LDA)	3800'/3890'	3800'/3890'

TAXIWAY/TAXILANE DATA TABLE		
	EXISTING	ULTIMATE
TAXIWAY EDGE SAFETY MARGIN (TESM)	7.5'	7.5'
TAXIWAY WIDTH	35'	35'
TAXIWAY SHOULDER WIDTH	10'	10'
TAXIWAY SAFETY AREA WIDTH (TSA)	79'	79'
TAXIWAY OBJECT FREE AREA WIDTH (TOFA)	131'	131'
TAXIWAY CENTERLINE TO OBJECT	65.5'	65.5'
TAXILANE WIDTH	25'/35'	25'/35'
TAXILANE OBJECT FREE AREA WIDTH (TOFA)	115'	115'
TAXIWAY/TAXILANE LIGHTING	MITL	MITL
TAXIWAY DESIGN GROUP	2	2
TAXILANE DESIGN GROUP	1A/2	1A/2

CRITICAL AIRCRAFT DATA TABLE	
RUNWAY 6/24 EXISTING	
AAC-ADG	B-II
RUNWAY STRENGTH*	PCN 20/R/C/W/T
APPROACH SPEED	91 - < 121 knots
WINGSPAN	49' - < 79'
TAIL HEIGHT	20' - < 30'
RUNWAY 6/24 ULTIMATE	
AAC-ADG	C-II
RUNWAY STRENGTH*	PCN 20/R/C/W/T
APPROACH SPEED	121 - < 141 knots
WINGSPAN	49' - < 79'
TAIL HEIGHT	20' - < 30'
RUNWAY 12/30 EXISTING & ULTIMATE	
AAC-ADG	B-II
RUNWAY STRENGTH*	PCN 9/R/C/W/T
APPROACH SPEED	91 - < 121 knots
WINGSPAN	49' - < 79'
TAIL HEIGHT	20' - < 30'

SURVEY MONUMENTS			
NORTHING	EASTING	ELEVATION	TYPE
504524.82	2284651.65	544.6	PACS
507817.17	2289355.55	541.7	SACS #1
507321.31	2284955.55	536.9	SACS #2

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215 SYCAMORE STREET
MUSCATINE, IOWA 52761
PHONE: (563) 262-4141



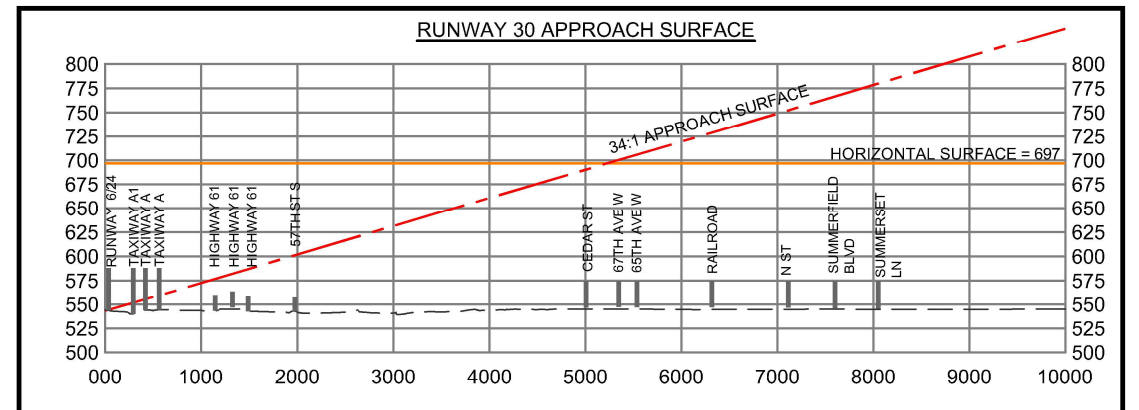
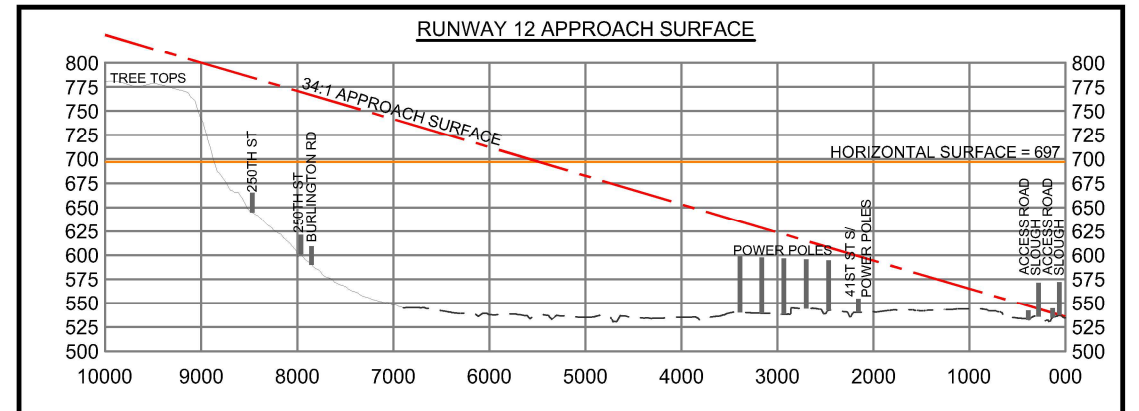
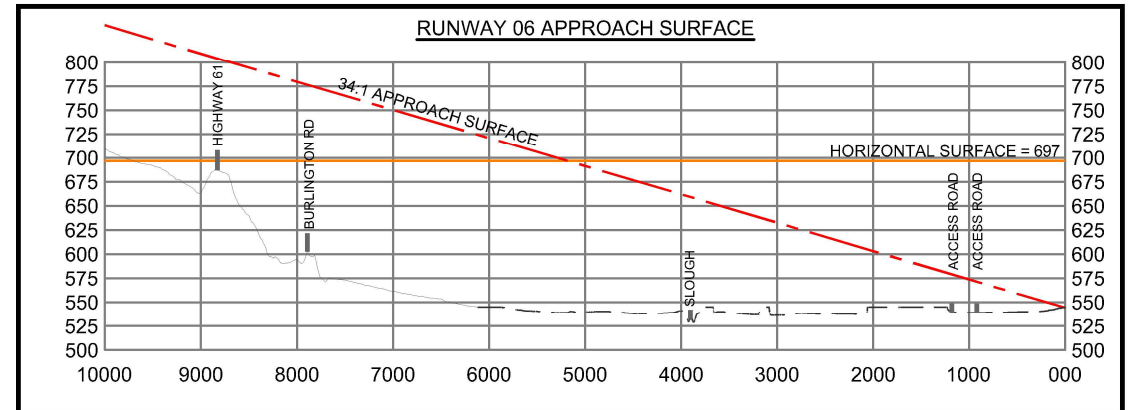
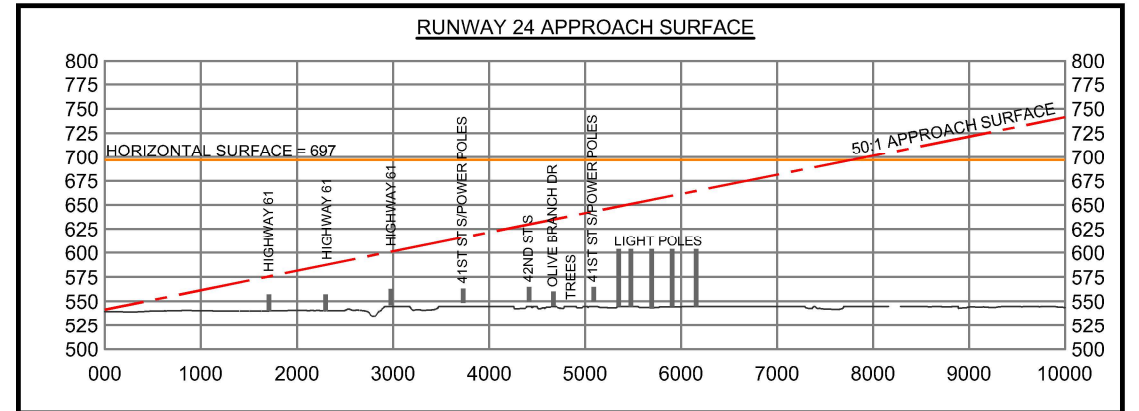
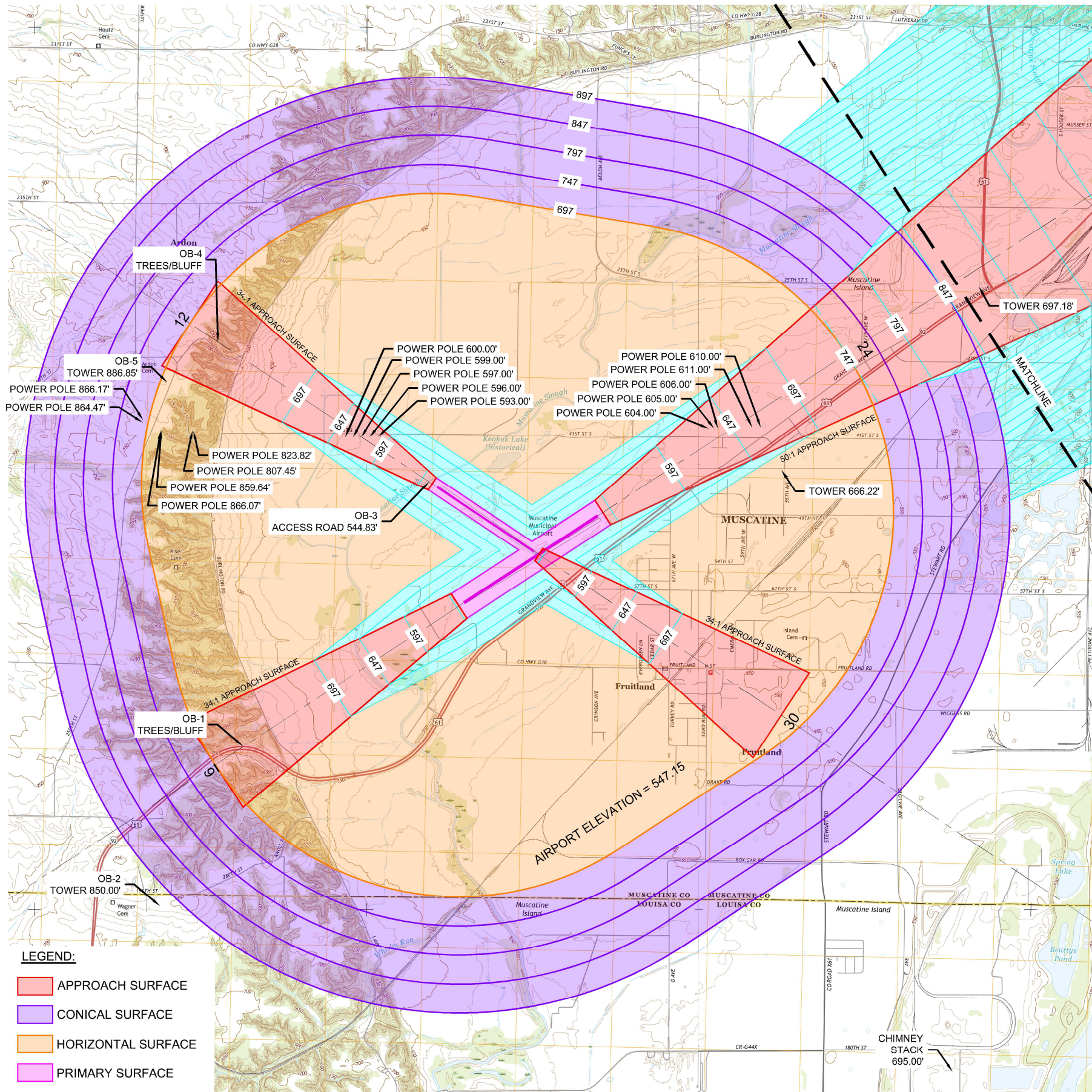
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DATE: 09/29/2017
PROJECT NO. 215081
APPROVED BY: JCD
SCALE: SEE SCALE BAR

MUSCATINE
AIRPORT LAYOUT PLAN

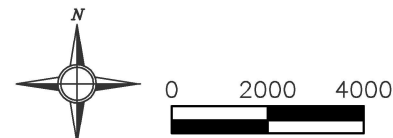
AIRPORT DATA SHEET

SHEET NO.
3
OF
16

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MAGNETIC DECLINATION
1° 7' W CHANGING BY 0° 5' W PER YEAR
MARCH 03, 2017
SOURCE: NGDC DECLINATION
EPOCH YEAR: 2010



NO.	REVISION DESCRIPTION	APPROVED	DATE

CLIENT: CITY OF MUSCATINE
215 SYCAMORE STREET
MUSCATINE, IOWA 52761
PHONE: (563) 262-4141



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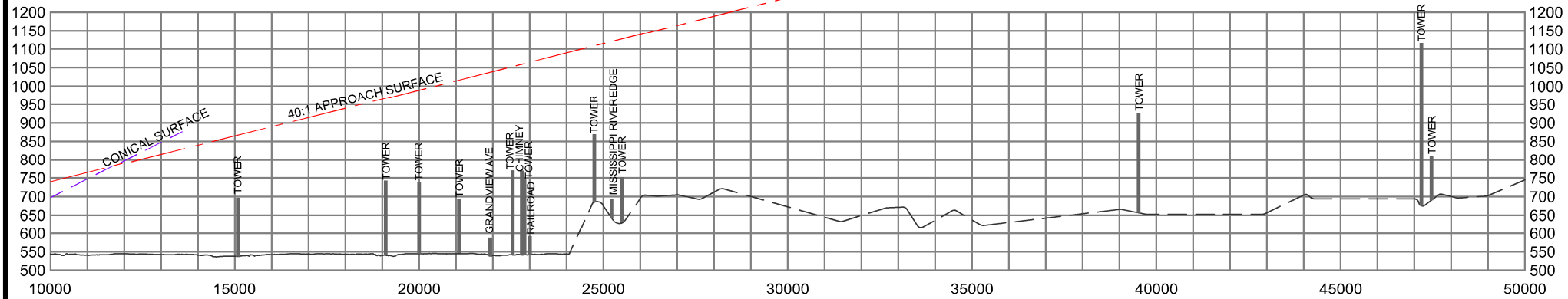
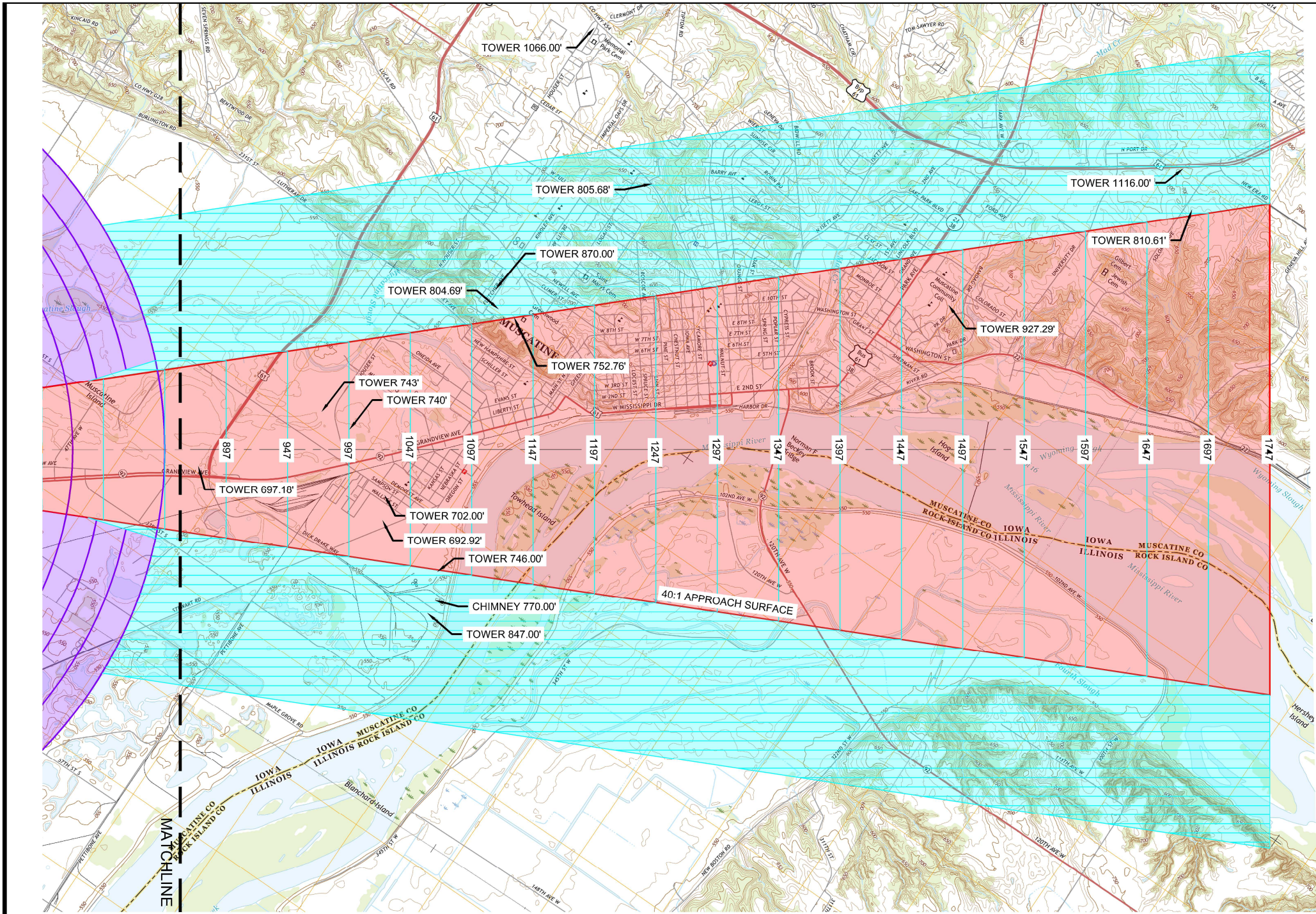
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SCALE: SEE SCALE BAR

MUSCATINE
AIRPORT LAYOUT PLAN

AIRPORT AIRSPACE PLAN

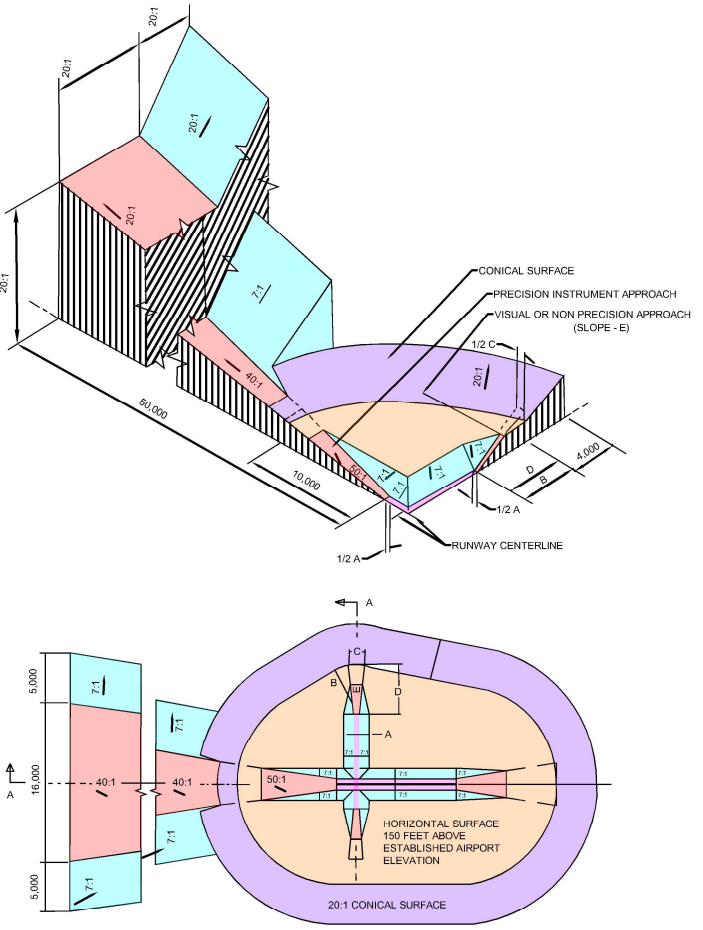
SHEET NO.
4
OF
16

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LEGEND:

- APPROACH SURFACE
- CONICAL SURFACE
- HORIZONTAL SURFACE
- PRIMARY SURFACE
- TRANSITIONAL SURFACE



OBSTRUCTION IDENTIFICATION SURFACES FEDERAL AVIATION REGULATIONS PART 77

DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY		PRECISION INSTRUMENT RUNWAY	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1000	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 MILE
D - VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* - PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

PART 77 APPROACH SURFACE DIMENSIONS

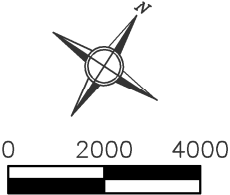
RUNWAY	INNER WIDTH	LENGTH	OUTER WIDTH	SLOPE
6	1,000	10,000	3,500	34:1
24	1,000	50,000	16,000	50:1, 40:1
12	500	10,000	3,500	34:1
30	500	10,000	3,500	34:1

OBSTRUCTION DATA TABLE (BEYOND INNER APPROACH)

ID	DESCRIPTION	GROUND ELEVATION	OBJECT ELEVATION	SURFACE PENETRATION	PROPOSED DISPOSITION
SEE SHEET 10 FOR OBSTRUCTION INFORMATION					

NOTE:
THE AIRPORT LIES WITHIN THE A-P AIRPORT ZONING DISTRICT, WHICH IS DEFINED IN TITLE 10 OF THE CITY CODE. THE ZONING REGULATIONS FOR THIS DISTRICT ADDRESS HEIGHT RESTRICTIONS AND RESTRICT THE USE OF LAND WITHIN THE VICINITY OF THE AIRPORT.

MAGNETIC DECLINATION
1° 7' W CHANGING BY 0° 5' W
PER YEAR MARCH 03, 2017
SOURCE: NGDC DECLINATION
EPOCH YEAR: 2010



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ANDERSON BOGERT

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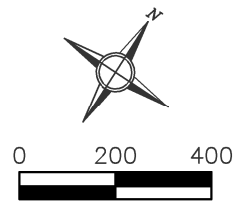
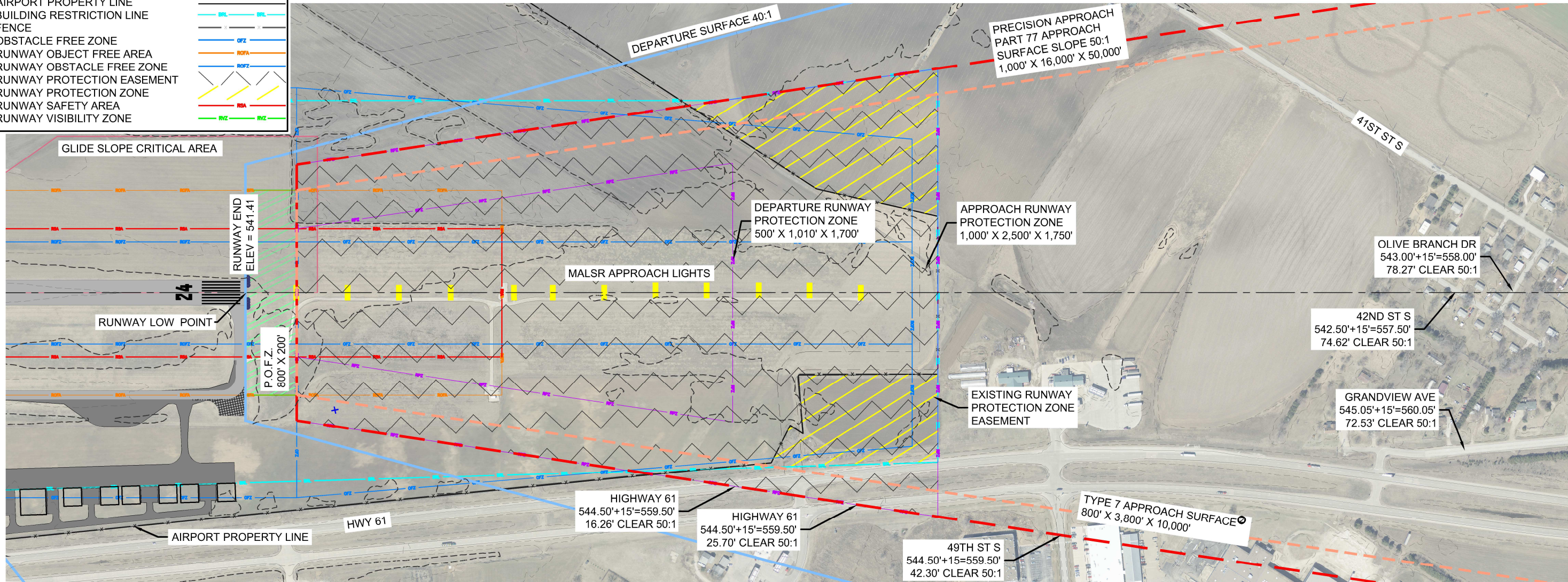
MUSCATINE
AIRPORT LAYOUT PLAN

AIRPORT AIRSPACE PLAN

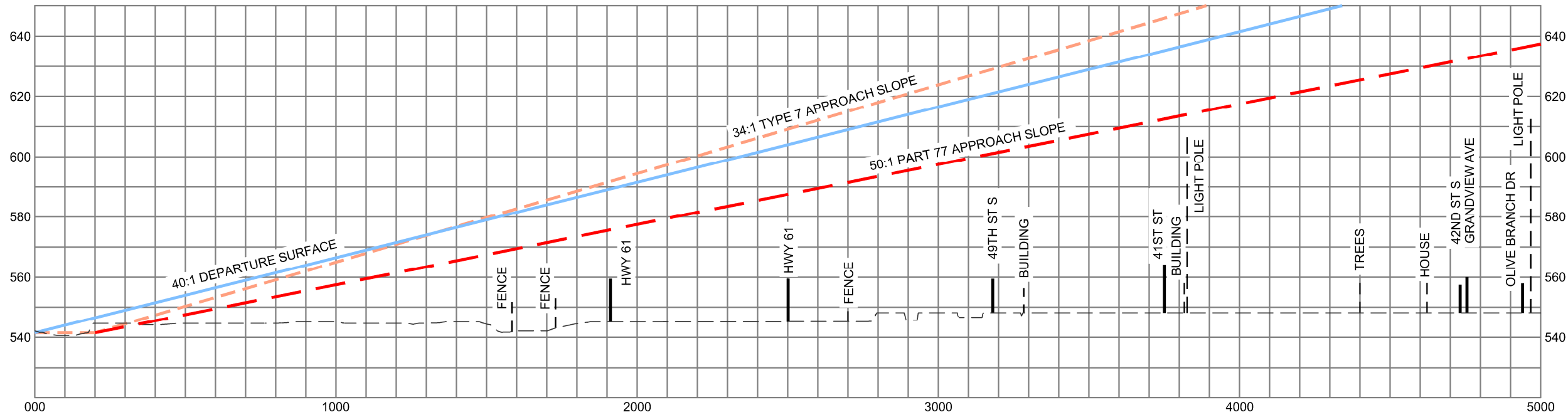
SHEET NO.
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OF
16

LEGEND

AIRPORT PROPERTY LINE
BUILDING RESTRICTION LINE
FENCE
OBSTACLE FREE ZONE
RUNWAY OBJECT FREE AREA
RUNWAY OBSTACLE FREE ZONE
RUNWAY PROTECTION EASEMENT
RUNWAY PROTECTION ZONE
RUNWAY SAFETY AREA
RUNWAY VISIBILITY ZONE

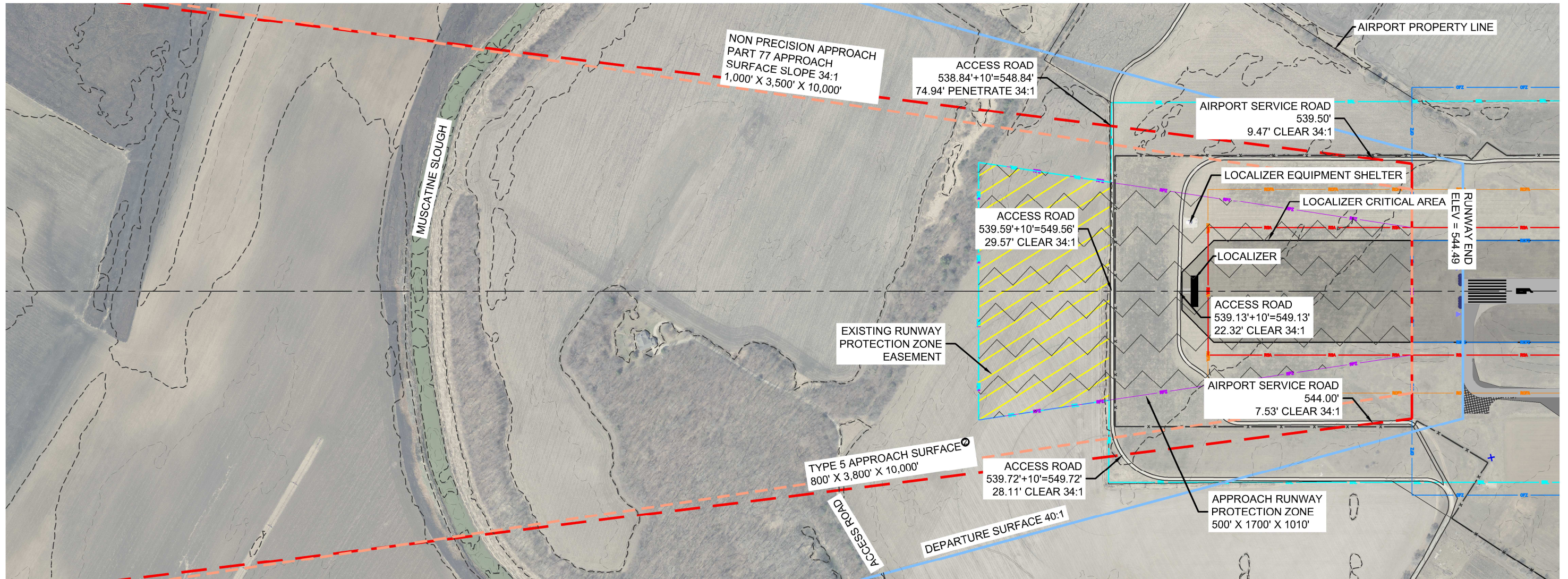


- NOTES:
1. SEE SHEET 10 FOR OBSTRUCTION TABLES.
 2. APPROACH SURFACE TYPE FROM FAA AC 5300-13A, TABLE 3-2.
 3. DATE OF OBSTRUCTION SURVEY: MARCH 3, 2017.
 4. SURVEY ACCURACY: SURVEY OF INNER APPROACH MET THE ACCURACY REQUIREMENTS OF FAA AC 150/5300-18B.

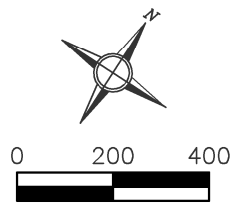


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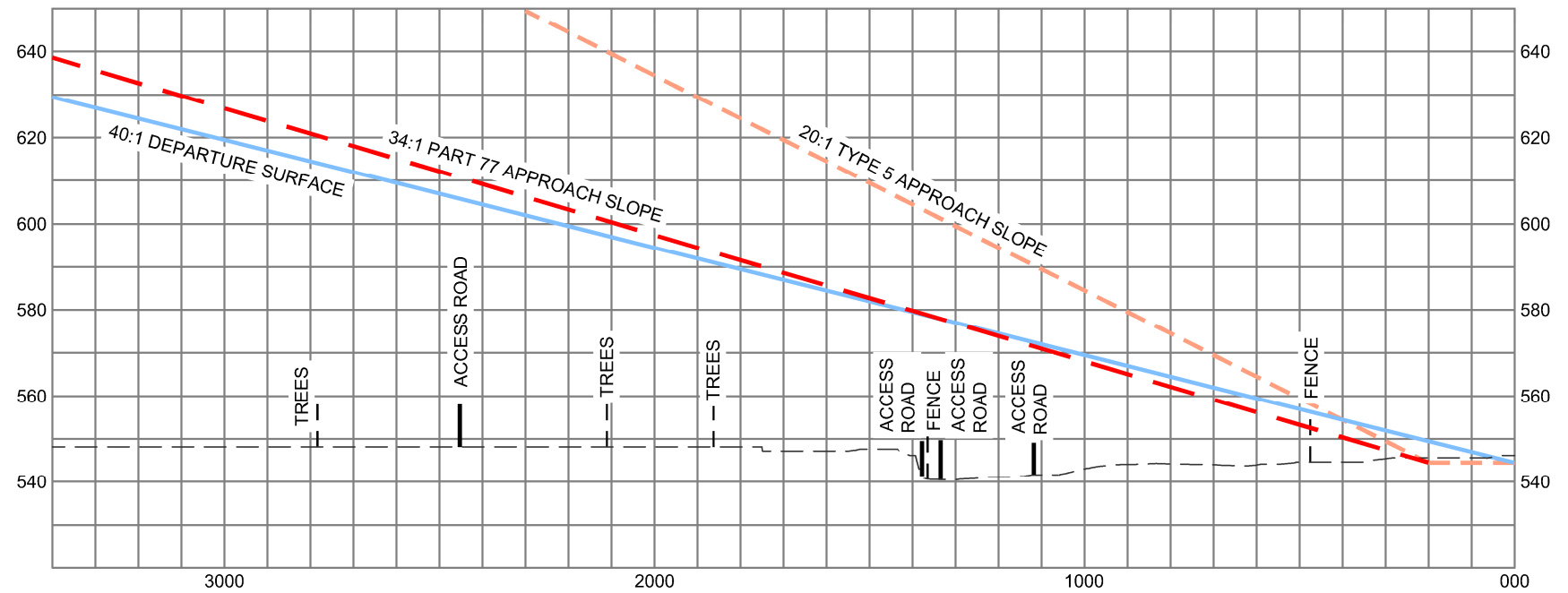
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LEGEND	
AIRPORT PROPERTY LINE	---
BUILDING RESTRICTION LINE	---
FENCE	---
OBSTACLE FREE ZONE	---
RUNWAY OBJECT FREE AREA	---
RUNWAY OBSTACLE FREE ZONE	---
RUNWAY PROTECTION EASEMENT	---
RUNWAY PROTECTION ZONE	---
RUNWAY SAFETY AREA	---
RUNWAY VISIBILITY ZONE	---



- NOTES:
1. SEE SHEET 10 FOR OBSTRUCTION TABLES.
 2. APPROACH SURFACE TYPE FROM FAA AC 5300-13A, TABLE 3-2.
 3. DATE OF OBSTRUCTION SURVEY: MARCH 3, 2017.
 4. SURVEY ACCURACY: SURVEY OF INNER APPROACH MET THE ACCURACY REQUIREMENTS OF FAA AC 150/5300-18B.



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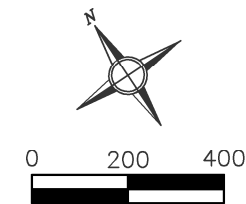
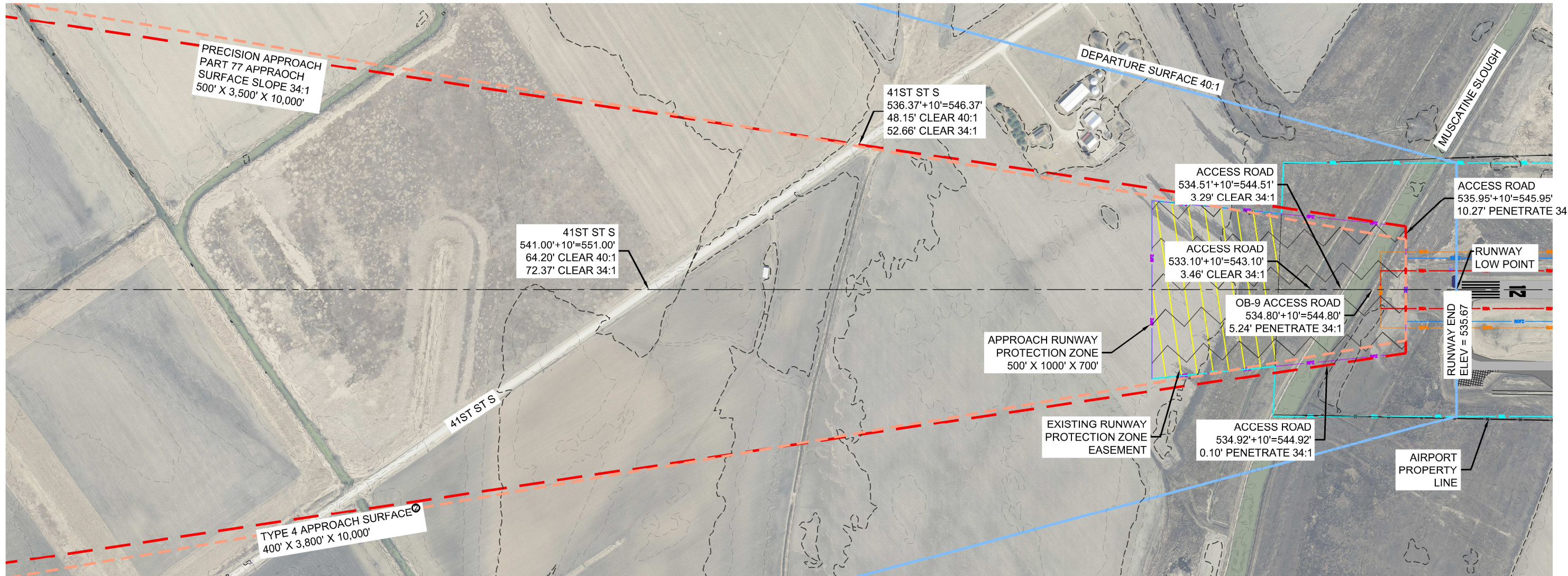
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SCALE: SEE SCALE BAR

MUSCATINE
AIRPORT LAYOUT PLAN

INNER PORTION OF THE
APPROACH SURFACE
RUNWAY 6

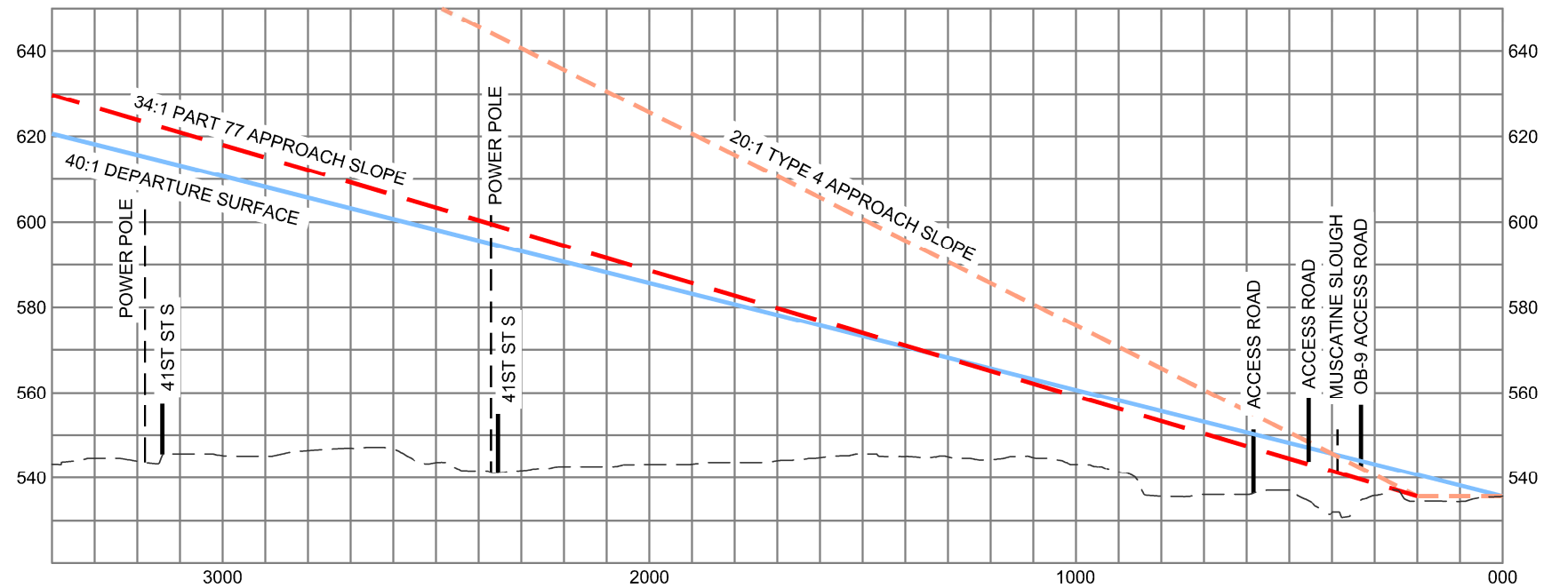
SHEET NO.
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OF
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LEGEND	
AIRPORT PROPERTY LINE	---
BUILDING RESTRICTION LINE	---
FENCE	---
OBSTACLE FREE ZONE	---
RUNWAY OBJECT FREE AREA	---
RUNWAY OBSTACLE FREE ZONE	---
RUNWAY PROTECTION EASEMENT	---
RUNWAY PROTECTION ZONE	---
RUNWAY SAFETY AREA	---
RUNWAY VISIBILITY ZONE	---

- NOTES:
- SEE SHEET 10 FOR OBSTRUCTION TABLES.
 - APPROACH SURFACE TYPE FROM FAA AC 5300-13A, TABLE 3-2.
 - DATE OF OBSTRUCTION SURVEY: MARCH 3, 2017.
 - SURVEY ACCURACY: SURVEY OF INNER APPROACH MET THE ACCURACY REQUIREMENTS OF FAA AC 150/5300-18B.



ANDERSON BOGERT

DRAWN BY: MJP
DATE: 09/29/2017
PROJECT NO. 215081

APPROVED BY: JCD
SCALE: SEE SCALE BAR

MUSCATINE
AIRPORT LAYOUT PLAN

INNER PORTION OF THE
APPROACH SURFACE
RUNWAY 12

SHEET NO.
8
OF
16