

AIRPORT LAYOUT PLAN

MILWAUKEE MITCHELL INTERNATIONAL AIRPORT

September 2022

Vicinity Map



Location Map



State Map



Drawing Index

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Note: Departure Surface drawings can be found on the Inner Approach sheets.

	
Reviewed <u>Wendy Hollenstein</u>	Approved <u>Matt McEl</u>
Title <u>Airport Development Engineer</u>	Title <u>Airport Engineering Section Chief</u>
Date <u>September 12, 2022</u>	Date <u>September 13, 2022</u>

	
Approved <u>[Signature]</u>	
Title <u>Airport Director</u>	
Date <u>September 09, 2022</u>	

	
Submitted By <u>[Signature]</u>	
Title <u>Project Manager</u>	
Date <u>September 14, 2022</u>	

No.	Date	By	Description
REVISIONS			

AIRPORT DATA TABLE		
ITEM	EXISTING	FUTURE
NPIAS Category	Primary	Same
Operational Role	Medium Hub	Same
State Service Role	Air Carrier/Primary Air Cargo	Same
Airport Reference Code	D - IV	D - V
Critical Design Aircraft		
	MD-11	Boeing 777/787-8
Airport Reference Point (NAD 83)	Latitude (N)	42° 56' 48.96" N
	Longitude (W)	87° 53' 49.43" W
	Declination	3° 57' 00" W
Airport Magnetic Declination (WMM 2015)	Annual Rate of Change	0° 02' 00" W
	Date	February 23, 2021
	Source	National Oceanic and Atmospheric Administration, NOAA
Airport Elevation (MSL)	728.4	Same
Airport Rescue & Firefighting Index	C	Same
Airport Property in Acres (Airport Parcel in Acres)	2,315	Same
Mean Max Temperature (Hottest Month)	81° (July)	
Distance & Direction from Milwaukee	5 miles South	
Owner	Milwaukee County	
Terminal Navigation Aids	VOR/DME, ATIS, GPS, LOC, NDB	Same
Visual Aids	Rotating Beacon, Windcon, PAPI, VASI, ALSF-2, MALSR	Same
Weather Aids	ASOS, AWOS	Same
Taxiway Lighting	MTL	Same
Datum	NAD 83, NAVD 88	Same

ABBREVIATIONS:

ALSF-2: Approach Lighting System with Sequence Flashing Lights
 APBN: Airport Beacon
 ARFF: Aircraft Rescue and Firefighting
 ARRP: Airport Reference Point
 ASDA: Accelerate-Stop Distance Available
 ASD: Airport Surface Detection Equipment
 ASOS: Automated Surface Observing System
 ASR: Airport Surveillance Radar
 ATIS: Air Traffic Control Tower
 AWOS: Automated Weather Observing System
 CL: Centerline
 DDTW: Double Dual Tandem Wheel
 DME: Distance Measuring Equipment
 DTW: Dual Tandem Wheel
 DW: Dual Wheel
 GPS: Global Positioning System
 GS: Glide Slope
 GSE: Ground Service Equipment
 FBO: Fixed Base Operator
 FLD: High Intensity Runway Lighting
 IFR: Instrument Flight Rules
 ILS: Instrument Landing System
 LDA: Landing Distance Available
 LOC: Localizer
 MALSR: Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights
 MBL: Medium Intensity Runway Lighting
 MSL: Mean Sea Level
 NAD83: North American Datum of 1983
 NAVD88: North American Vertical Datum of 1988
 NDB: Non-Directional Beacon
 OFA: Object Free Area
 OFZ: Obstacle Free Zone
 PAPI-4: Precision Approach Path Indicator (four lights)
 PCN: Pavement Classification Number
 POZ: Precision Obstacle Free Zone
 POC: Primary Airport Control
 QTA: Quick Turnaround Area
 REL: Runway End Identifier Lights
 RFL: Runway Protection Zone
 ROFZ: Runway Obstacle Free Zone
 RON: Remain Over Night
 RTR: Remote Transmitter/Receiver
 RVR: Runway Visual Range
 RSA: Runway Safety Area
 SAC: Secondary Airport Control
 SAE: Snow Removal Equipment
 SSALR: Simplified Short Approach Lighting System with Runway Alignment Indicator Lights
 SW: TACAN
 TDG: Taxiway Design Group
 TDZ: Touchdown Zone
 TERPS: Terminal Instrument Procedures
 TSE: Taxiway Edge Safety Margins
 TOA: Take-Off Distance Available
 TOFA: Taxiway Obstacle Free Area
 TSA: Taxiway Safety Area
 VASI: Visual Approach Slope Indicator (four lights)
 VFR: Visual Flight Rules
 VOR: Vehicle Service Road
 VOR: Very High Frequency Omni-directional Range Station
 WMM: World Magnetic Model

EXISTING TAXIWAY DATA TABLE

TAXIWAY	WIDTH		SHOULDER		TSA		TOFA		TESM		TDG	
	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE
A	75'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
A1	99'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
A3	75', 115'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
A4	75', 110'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
A5	94'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
B	75'	Same	35'	Same	171'	Same	259'	Same	15'	Same	5	Same
C2	75'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
D	100'	Removed	30'	Removed	214'	Removed	320'	Removed	15'	Removed	5	Removed
D1	75'	Removed	30'	Removed	118'	Removed	186'	Removed	15'	Removed	5	Removed
E	82'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
F	50', 75'	Same	20' & 30'	Same	118' & 214'	Same	320'	Same	10' & 15'	Same	3 & 5	Same
F1	50'	Removed	20'	Removed	118'	Removed	186'	Removed	10'	Removed	3	Removed
F2	50'	Removed	20'	Removed	118'	Removed	186'	Removed	10'	Removed	5	Removed
G	75'	Removed	20'	Removed	214'	Removed	320'	Removed	15'	Removed	3	Removed
H	50'	Removed	20'	Removed	118'	Removed	186'	Removed	10'	Removed	3	Removed
J	50'	Same	20'	Same	118'	Same	186'	Same	10'	Same	3	Same
K	50', 75', 100'	Removed	20' & 30'	Removed	214'	Removed	320'	Removed	10' & 15'	Removed	3 & 5	Removed
M	75'	Removed	30'	Removed	214'	Removed	320'	Removed	15'	Removed	5	Removed
N	75', 95'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
P	50'	Removed	20'	Removed	118'	Removed	186'	Removed	10'	Removed	3	Removed
Q	75'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
R	75', 100', 150'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
R3	75'	Removed	30'	Removed	214'	Removed	320'	Removed	15'	Removed	5	Removed
R4	75'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
R5	94'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
R6	94'	Same	20' & 30'	Same	118' & 214'	Same	320'	Same	15'	Same	5	Same
S	75', 131'	303'	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
T	75'	Removed	30'	Removed	214'	Removed	320'	Removed	15'	Removed	5	Removed
U	75'	Removed	30'	Removed	214'	Removed	320'	Removed	15'	Removed	5	Removed
V	75'	Removed	30'	Removed	118'	Removed	186'	Removed	15'	Removed	5	Removed
W	75'	Same	N/A	Same	214'	Same	320'	Same	15'	Same	5	Same
Y	75'	Same	30'	Same	214'	Same	320'	Same	15'	Same	5	Same
Z	75'	Removed	30'	Removed	214'	Removed	320'	Removed	15'	Removed	5	Removed

NOTES:
 1/ Portion of Taxiway A1 to be removed between Taxiways A and B. Remainder of Taxiway A1 to be renamed to Taxiway A2.
 2/ Portion of Taxiway C connecting to Runway 13-31 to be removed.
 3/ Portion of Taxiway F to be removed between Runway 7L-25R and Taxiway F2.
 4/ Portion of Taxiway M to remain between Taxiways B and E. This portion of taxiway to be renamed to Taxiway E1.
 5/ Portion of Taxiway N to be removed between Wisconsin 128th Air National Guard and Future 7R-25L Parallel Taxiway.
 6/ Portion of Taxiway R to be removed between Runway 7R-25L and Taxiway R4. Portion of Taxiway R between Taxiways A and B to be renamed to Taxiway A1.
 7/ Portion of Taxiway S to be removed between Runways 1L-19R and 1R-19L.

FUTURE TAXIWAY DATA TABLE

TAXIWAY	WIDTH	SHOULDER	TSA	TOFA	TESM	TDG
Future C	75'	20'	118'	186'	10'	3
Future F	75'	20'	118'	186'	10'	3
Future H	35'	15'	79'	131'	7.5'	2
Future L	50'	15'	79'	131'	7.5'	2
Future M	88', 98', 101'	30'	214'	320'	15'	5
Future E2	81'	30'	214'	320'	15'	5
Future R	75'	30'	214'	320'	15'	5
Future R7	77'	30'	214'	320'	15'	5
Future V	75'	30'	214'	320'	15'	5
Future W	75'	30'	214'	320'	15'	5
Future BB	75'	30'	214'	320'	15'	5
Future CC	75'	30'	214'	320'	15'	5
Future CC1	89'	30'	214'	320'	15'	5
Future CC2	91'	30'	214'	320'	15'	5
Future CC3	92'	30'	214'	320'	15'	5
Future DD	75'	30'	171'	259'	15'	4
Future EE	75'	30'	118'	186'	15'	3
Future EE1	75'	30'	118'	186'	15'	3

NOTES:
 1/ All elevations are Mean Sea Level (MSL).
 2/ All coordinates reference the North American Datum 1983 (NAD83).
 3/ All elevations reference the North American Vertical Datum 1988 (NAVD88).

SOURCES:
 MIKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration, Advisory Circular 150/5300-13A Airport Design, February 2014; Federal Aviation Administration, Engineering Brief No. 934, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010.

PREPARED BY:
 Ricondo & Associates, Inc.

RUNWAY DATA TABLE

DESCRIPTION		RUNWAY 1L-19R				RUNWAY 1R-19L				RUNWAY 7L-25R				RUNWAY 7R-25L				RUNWAY 13-31			
		EXISTING		FUTURE		EXISTING		FUTURE		EXISTING		FUTURE		EXISTING		FUTURE		EXISTING		FUTURE	
		RUNWAY 1L	RUNWAY 19R	RUNWAY 1L	RUNWAY 19R	RUNWAY 1R	RUNWAY 19L	RUNWAY 7L	RUNWAY 25R	RUNWAY 7L	RUNWAY 25R	RUNWAY 7R	RUNWAY 25L	RUNWAY 7R	RUNWAY 25L	RUNWAY 13	RUNWAY 31	RUNWAY 13	RUNWAY 31		
Runway Length		9,990'		10,000'		4,182'		4,797'		5,100'		8,300'		Same		5,537'					
Runway Width		200'		Same		150'		100'		Same		150'		Same		150'					
Runway Design Code		D/V/600'		Same		C/V/5000'		B/I/5000'		Same		D/V/5000'		Same		B/I/5000'					
Approach Reference Code (APRC)		D/V/2400' D/V/1600'	D/V/2400' D/V/2400'	Same	Same	D/V/5000'	D/V/5000'	B/I/5000'	B/I/5000' D/I/5000'	D/V/5000' D/V/5000'	D/V/5000' D/V/5000'	D/V/2400' D/V/2400'	D/V/5000' D/V/5000'	Same	Same	D/V/5000' D/V/5000'	D/V/5000' D/V/5000'				
Departure Reference Code (DPRC)		D/V/ D/V	Same			D/V/ D/V		B/I/ D/I		D/V/ D/V		D/V/ D/V		Same		D/V/ D/V					
Critical Aircraft		Boeing 767-300 McDonnell Douglas MD-11		Boeing 777F Boeing 787-8		Beechcraft King Air 200		Beechcraft King Air 300/350 Beech 1900		Beechcraft King Air 300/350 Beech 1900		Boeing 767-200 Boeing 737-200		Boeing 777F Boeing 787-8		Beechcraft King Air 200					
Approach Visibility Minimums		1/2 Mile	1/2 Mile	Same	Same	1 Mile	1 Mile	1 Mile	1 Mile	Same	Same	1/2 Mile	1 Mile	Same	Same	1 Mile	1 Mile				
Part 77 Approach Type		Precision	Precision	Same	Same	Non-Precision	Non-Precision	Non-Precision	Non-Precision (Utility)	Same	Same	Precision	Non-Precision	Same	Same	Non-Precision	Non-Precision				
Part 77 Approach Slope		50:1	50:1	Same	Same	34:1	34:1	34:1	20:1	Same	34:1	50:1	34:1	Same	Same	34:1	34:1				
Aeronautical Survey Required for Approach		Vertically Guided	Vertically Guided	Same	Same	Vertically Guided	Vertically Guided	Vertically Guided	Vertically Guided	Same	Same	Vertically Guided	Vertically Guided	Same	Same	Vertically Guided	Vertically Guided				
TERPS Departure Surface/OCS		40:1	40:1	Same	Same	40:1	40:1	40:1	40:1	Same	Same	40:1	40:1	Same	Same	40:1	40:1				
Threshold Siting Surface		34:1	34:1	Same	Same	20:1	20:1	20:1	20:1	Same	Same	34:1	20:1	Same	Same	20:1	20:1				
Runway End Elevation (MSL)		705.8'	672.7'	Same	Same	677.7'	669.6'	671.5'	674.6'	Same	Same	728.4'	669.9'	Same	Same	671.4'	668.6'				
Displaced Threshold Elevations (MSL)		703.5'	671.1'	Same	Same	None	None	None	None	671.5'	Same	None	669.4'	Same	Same	670.1'	668.6'				
Runway Touchdown Zone Elevation (MSL)		703.5'	672.0'	Same	Same	677.7'	674.0'	672.0'	674.6'	Same	Same	728.4'	683.0'	Same	Same	670.1'	670.0'				
Highest Point on Runway Centerline (MSL)		705.8'		Same		677.7'		674.6'		Same		728.4'		Same		671.4'					
Lowest Point on Runway Centerline (MSL)		669.0'		Same		669.6'		667.0'		Same		669.0'		Same		668.6'					
Runway End Coordinates		Latitude (N)	42° 55' 49.80" N	42° 57' 27.70" N	Same	42° 57' 27.80" N	42° 56' 21.77" N	42° 57' 02.74" N	42° 57' 09.89" N	42° 57' 24.80" N	42° 57' 08.94" N	Same	42° 56' 20.67" N	42° 56' 46.47" N	Same	Same	42° 57' 29.28" N	42° 56' 52.51" N			
		Longitude (W)	87° 53' 51.52" W	87° 53' 34.78" W	Same	87° 53' 34.76" W	87° 53' 32.50" W	87° 53' 25.49" W	87° 54' 19.11" W	87° 53' 17.89" W	87° 54' 22.98" W	Same	87° 55' 03.91" W	87° 53' 18.00" W	Same	Same	87° 54' 12.29" W	87° 53' 17.18" W			
Displaced Threshold Coordinates		Latitude (N)	42° 55' 52.74" N	42° 57' 20.00" N	Same	Same	None	None	None	None	42° 57' 09.89" N	Same	None	42° 56' 45.13" N	Same	Same	42° 57' 24.37" N	42° 56' 53.87" N			
		Longitude (W)	87° 53' 51.01" W	87° 53' 36.10" W	Same	Same	None	None	None	None	87° 54' 19.11" W	Same	None	87° 53' 23.52" W	Same	Same	87° 54' 04.95" W	87° 53' 19.22" W			
Displaced Threshold Length		300'	785'	Same	795'	None	None	None	None	300'	Same	None	433'	Same	Same	738'	205'				
True Bearing		7.16°	187.16°	Same	Same	7.17°	187.17°	71.65°	251.66°	Same	Same	71.64°	251.66°	Same	Same	132.24°	312.25°				
Maximum Gradient		1.50%		Same		1.50%		2.00%		Same		1.50%		Same		2.00%					
Effective Gradient		0.36%		Same		0.19%		0.08%		Same		0.69%		Same		0.05%					
Runway Lighting		ALSF-2	MALSR	Same	Same	None	None	None	None	Same	Same	MALSR	None	Same	Same	None	None				
Runway Marking		Precision		Same		Non-Precision		Non-Precision		Same		Precision		Same		Non-Precision					
Runway Edge Lighting		HRL		Same		MRL		MRL		Same		HRL		Same		MRL					
Surface Composition		Asphalt/Concrete		Same		Asphalt/Concrete		Asphalt/Concrete		Same		Asphalt/Concrete		Same		Asphalt/Concrete					
Surface Treatment		Grooved		Same		None		Grooved		Same		Grooved		Same		Grooved					
Surface Condition		Fair		Same		Fair		Good		Same		Fair		Same		Good					
Pavement Strength by:	PCN	64 R/A/W/T		Same		23 R/B/W/T		20 F/A/W/T		Same		58 R/A/W/T		Same		48 R/B/W/T					
	Wheel Loading (in 1,000 lbs.)	SW - 100 DW - 185 DTW - 350		Same Same Same		SW - 85 DW - 115 DTW - 350		SW - 30 DW - 55 DTW - 35		Same		SW - 100 DW - 185 DTW - 350		Same		SW - 80 DW - 110 DTW - 370					
Navigational Aids		ALSF-2, TDZCL LIGHTS, GS LOC, RVR, DME	MALSR, GS LOC, RVR, DME	Same	Same	REIL	N/A	REIL	REIL	Same	Same	GS LOC, DME	REIL LOC, DME	Same	Same	REIL	REIL				
Visual Aids		PAPI - 4	PAPI - 4	Same	Same	N/A	N/A	PAPI - 4	PAPI - 4	Same	Same	PAPI - 4	Same	Same	Same	PAPI - 4	PAPI - 4				
Blast Pad Dimensions (Length x Width)		412' x 235'	290' x 220'	Same	400' x 200'	None	None	None	None	Same	Same	200' x 200'	250' x 200'	Same	Same	None	330' x 150'				

EXISTING RUNWAY AND PARALLEL TAXIWAY SEPARATION TABLE

TAXIWAYS	RUNWAYS				
	1L-19R	1R-19L	7L-25R	7R-25L	13-31
A	-	-	-	400'	-
D1	-	-	-	-	400'
E	400'	-	-	-	-
R	506'	-	-	-	-
T	400'	-	-	-	-
U	-	-	-	-	400'
V	-	-	280' / 308'	-	-
Y	-	-	-	400'	-

FUTURE RUNWAY AND PARALLEL TAXIWAY SEPARATION TABLE

TAXIWAYS	RUNWAYS		
	1L-19R	7L-25R	7R-25L
A	-	-	400'
E	400'	-	-
M	-	-	400'
R	506'	-	-
U	-	-	-
V	-	400'	-
Y	-	-	400'
CC	600' / 751'	-	-
DD	400'	-	-
EE	400'	-	-

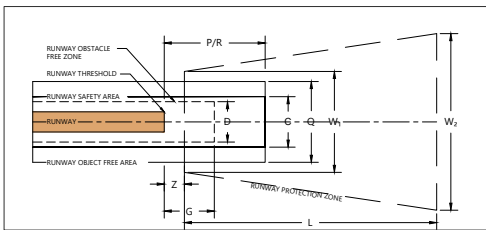
EXISTING RUNWAY SURFACES TABLE

RUNWAY	RSA/OFA			RPZ				RFZ		POFZ	
	C	(P/R)	Q	W1	W2	L	Z	D	G	WIDTH	LENGTH
1L	500'	1,000'	800'	1,000'	1,750'	2,500'	200'	400'	200'	800'	200'
19R	500'	1,000'	800'	1,000'	1,750'	2,500'	200'	400'	200'	800'	200'
1R	500'	1,000'	800'	500'	1,010'	1,700'	200'	400'	200'	N/A	N/A
19L	500'	1,000'	800'	500'	1,010'	1,700'	200'	400'	200'	N/A	N/A
7L	150'	300'	500'	500'	700'	1,000'	200'	400'	200'	N/A	N/A
25R	150'	300'	500'	500'	700'	1,000'	200'	400'	200'	N/A	N/A
7R	500'	1,000'	800'	1,000'	1,750'	2,500'	200'	400'	200'	800'	200'
25L	500'	1,000'	800'	500'	1,010'	1,700'	200'	400'	200'	N/A	N/A
13	150'	300'	500'	500'	700'	1,000'	200'	400'	200'	N/A	N/A
31	150'	300'	500'	500'	700'	1,000'	200'	400'	200'	N/A	N/A

FUTURE RUNWAY SURFACES TABLE

RUNWAY	RSA/OFA			RPZ				RFZ		POFZ	
	C	(P/R)	Q	W1	W2	L	Z	D	G	WIDTH	LENGTH
1L	500'	1000'	800'	1,000'	1,750'	2,500'	200'	400'	200'	800'	200'
19R	500'	1000'	800'	1,000'	1,750'	2,500'	200'	400'	200'	800'	200'
7L	150'	300'	500'	500'	700'	1,000'	200'	400'	200'	N/A	N/A
25R	150'	300'	500'	500'	700'	1,000'	200'	400'	200'	N/A	N/A
7R	500'	1,000'	800'	1,000'	1,750'	2,500'	200'	400'	200'	800'	200'
25L	500'	1,000'	800'	500'	1,010'	1,700'	200'	400'	200'	N/A	N/A

RUNWAY SURFACES



NOTE:
1/ Distance is measured prior to the physical end of pavement in the direction of travel.

MODIFICATION TO STANDARDS

NO.	DATE OF FAA LETTER	DESCRIPTION	STATUS	FAA REFERENCE/AIRSPACE CASE
1	2/22/2013	Perimeter road located within Runway 1L OFA (tunnel required if perimeter road to be shifted outside of OFA, deemed not feasible).	Approved	N/A
2	3/5/2020	Objects including existing buildings and structures encroach on the RVZ between Runways 1L and 7R.	Approved	2019-AGL-8535-NRA through 2019-AGL-8542-NRA

NAVAID OWNERSHIP

RUNWAY	NAVAID/VISUAL AID	FEDERALLY OWNED	AIRPORT OWNED
1L	PAPI's		X
	Glide Slope	X	
	Approach Lights	X	
	Localizer	X	
	Windhear	X	
	Threshold Lights	X	
	RVR Roll Out	X	
	RVR Midpoint	X	
19R	RVR Touchdown	X	
	PAPI's		X
	Glide Slope	X	
	Approach Lights	X	
	Localizer	X	
	Threshold Lights	X	
	RVR Roll Out	X	
	RVR Midpoint	X	
7R	RVR Touchdown	X	
	PAPI's		X
	Glide Slope	X	
	Approach Lights	X	
	Localizer	X	
	Threshold Lights	X	
	RVR Touchdown	X	
25L	REL's		X
	PAPI's	X	
	REL's		X
13	PAPI's	X	
	REL's		X
31	PAPI's	X	
	REL's		X
7L	PAPI's	X	
	REL's		X
25R	REL's		X
	PAPI's	X	
1R	REL's	X	
	Airport Beacon		X
	Lighted Windcones		X

NOTES

- 1/ All elevations are Mean Sea Level (MSL).
- 2/ All coordinates reference the North American Datum 1983(NAD83).
- 3/ All elevations reference the North American Vertical Datum 1988 (NAVD88).

SOURCES:

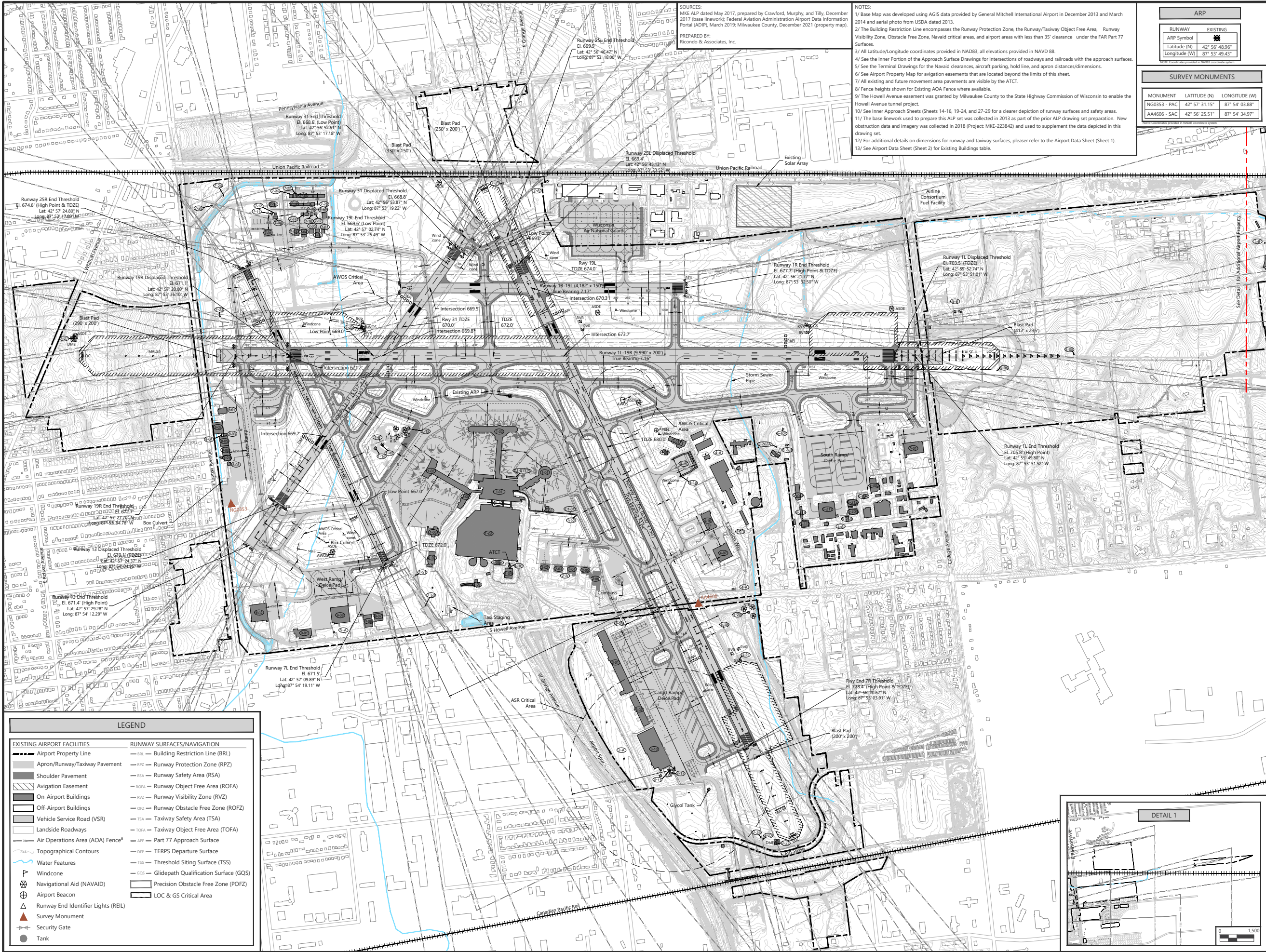
MIKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration, Advisory Circular 150/5300 13A Airport Design, February 2014; Federal Aviation Administration, Engineering Brief No. 094, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010.

PREPARED BY:

Ricondo & Associates, Inc.

EXISTING BUILDING INVENTORY

BUILDING NO.	DESCRIPTION	TOP ELEVATION (MSL)	BUILDING GROUP	BUILDING NO.	DESCRIPTION	TOP ELEVATION (MSL)	BUILDING GROUP	BUILDING NO.	DESCRIPTION	TOP ELEVATION (MSL)	BUILDING GROUP	BUILDING NO.	DESCRIPTION	TOP ELEVATION (MSL)	BUILDING GROUP	BUILDING NO.	DESCRIPTION	TOP ELEVATION (MSL)	BUILDING GROUP
1-01	Terminal	720'	NA	3-14	Remote Lot A Shelter	710'	3-A	5-10	Engine Generator (SX) MKEH	698'	5-A	5-207	Recruiting	737'	5-A	7-23	MALSR Shelter	677'	NA
1-02	Terminal Concourse C	697'	NA	3-15	Remote Lot A Teller Box	712'		5-10A	Fuel Tank	694'		5-208	Propulsion Shop	742'		7-24	Pump House	674'	NA
1-03	Terminal Concourse D	696'	NA	3-16	Picnic Shelter	728'		5-11	Glide Slope (GS) MKE Shelter	-		5-209	Former Military Building	734'		7-25	GS Shelter	676'	NA
1-04	Terminal Concourse E	695'	NA	3-17	Power Plant	726'	NA	5-12	Golf Range Office	692'	5-210	Former Military Building	730'	7-26	Guard Shack	679'	NA		
1-05	Administration	699'	NA	3-18	FAA Storage	716'	NA	5-12A	Golf Range	687'	5-211	Emergency Generator for Building 212	714'	7-27	LOC Shelter	720'	NA		
1-06	International Arrivals	687'	NA	3-19	Airtrack Train Station	738'	NA	5-12B	Golf Range	685'	5-212	Former Military ARFF Station	721'	7-28	Engine Generator MKEG	721'	NA		
1-07	Boiler House	696'	NA	3-20	RTR Shelter	705'	NA	5-12C	Golf Range	676'	5-212A	Shipping Container	712'	7-28A	Fuel Tank	-	NA		
1-08	Parking Structure	723'	NA	3-21	GS Shelter	717'	NA	5-13	Garden Shed	671'	5-213	CES Firefighters Admin / Training	715'	7-30	Hangar	690'	NA		
1-08A	Electrical Distribution Building	689'	NA	3-22	MALSR Shelter	735'	NA	5-14	Picnic Shelter	707'	5-216	Hangar Air Compressor/MFFF Fire Suppression System	714'	7-31	LOC Shelter	676'	NA		
1-08B	EDS Generator	680'	1-A	3-23	LOC Shelter	738'	NA	5-15	Guard Shack	-	5-217	Maintenance Hangar	748'	7-32	Guard Shack	-	NA		
1-08N	North Bridge	731'		3-24	Guard Shack	-	NA	5-17	FAA	699'	5-218	NDI Shop	721'	7-33	USGS Monitoring Station	-	NA		
1-08S	South Bridge	732'		3-25	USGS Monitoring Station	707'	3-A	5-17A	FAA	702'	5-219	Hangar	719'	8-01	Hangar	697'	NA		
1-09	FAA Administration	688'	3-26	SSALR Shelter	734'	5-17B		FAA	698'	5-220	Hangar	734'	8-02	Hangar	709'	NA			
1-09A	FAA Generator	681'	3-27A	Shed	-	5-100		Main Gate Overwatch	725'	5-221	Aircraft Maintenance Storage	715'	8-03	Hangar	685'	NA			
1-10	FAA ATCT	875'	NA	3-27B	Storage	-	3-A	5-101	Civilian / Military Personnel / Finance	726'	5-222	Hangar	716'	8-04	Walkway	686'	NA		
1-11	Employee Lot Shelter	681'	NA	3-27C	Storage	-		5-102	Wing Headquarters	734'	5-224	Former Military Building	724'	8-05	FBO	715'	NA		
1-11A	Employee Lot Shelter	681'	NA	3-29	Equipment Shelter	-		NA	5-103	Emergency Generator for Building 102	721'	5-225	Life Support / Intel Storage Facility	719'	8-06	FBO	700'	NA	
1-12	Employee Lot Shelter	677'	NA	4-01	ARFF Station	706'	NA	5-104	Vehicle Ops / Maintenance	741'	5-256	Storage	687'	8-07	FBO	687'	NA		
1-13	Surface Lot Teller Box	681'	NA	4-02	Maintenance Shed	709'	4-A	5-104A	Storage	724'	5-259	Confined Space Training	-	8-08	GSE Building	692'	NA		
1-16	Fuel Support	679'	NA	4-02A	Maintenance Storage Shed	714'		5-104B	Storage	724'	5-261	Fire Department Training Facility	706'	9-01	GSE Maintenance	704'	NA		
1-17	Storage	679'	NA	4-03	Maintenance Shed	710'		5-104C	Vehicle Ops / Maintenance	723'	5-262	Readiness Training Facility	710'	9-02	Hangar	717'	NA		
1-18	RTR MK	678'	NA	4-04A	Sheriff Dog Kennel	699'	4-A	5-105	Pallet Storage	730'	5-262A	Fire Control Tower	713'	9-04	Telecommunications	680'	NA		
1-21	CPS Administration	688'	NA	4-04A	Combined Maintenance Facility	707'		5-105A	Storage	725'	5-300	Combat Arms Training and Maintenance	717'	9-06	Hangar	700'	9-A		
1-27	Taxi Stand	-	1-B	4-04B	Combined Maintenance Facility	705'		5-106	Civil Engineering	733'	5-301	Small Arms Indoor Firing Range	725'	9-06A	Storage	-		9-06B	Storage
1-35	GSE Building	691'		4-04C	Combined Maintenance Facility	705'	5-107	Sjan Dining Hall	729'	5-302	SRE Storage	745'	9-07	Hangar	701'	9-07A		Shed	-
1-36	Bus Shelter	-		4-04-T1	Shed	-	5-108	Civil Engineering Squadron Admin	728'	5-303	POL Operations	719'	9-08	Hangar	701'	9-08	Maintenance Hangar	736'	
1-40	Control Building	-	1-B	4-05	Salt Storage Dome	743'	4-05	Heavy Equipment Storage	735'	5-109	HazMat Pharmacy	722'	9-09	USGS Monitoring Station	-	82	Parking Toll Booth	690'	1-A
1-41	Shed	-		4-06	Storage	702'	5-111A	Storage	720'	5-304	CATS Facility	721'	83	Parking Toll Booth	690'	84	Parking Toll Booth	690'	
1-42	Equilon Pipeline	-		4-07	Hangar	727'	5-112	Survival Equipment Shop	722'	5-305	Jet Fuel Fill Stand	727'	85	Parking Toll Booth	690'	86	Parking Toll Booth	690'	
1-43	Office	-	4-08	Water Service Building	701'	5-114	Base Exchange Sales Store	723'	5-309	Jet Fuel Fill Stand	727'	87	Parking Toll Booth	690'	88	Parking Toll Booth	690'	1-A	
1-44	Fuel Farm Electrical Building	-	4-08A	MMSD Control Building	704'	5-116	Emergency Generator for Building 102	715'	5-310	Jet Fuel Pumphouse	719'	89	Parking Toll Booth	690'	89	Parking Toll Booth	690'		
1-50	Guard Shack	679'	4-08B	Generator	701'	5-117	Services Flight	726'	5-311	LOX Storage	720'	910	Parking Toll Booth	690'	911	Parking Toll Booth	690'		
1-51	Guard Shack	677'	2-A	4-09	Storage	688'	5-118	Emergency Generator for Building 111	718'	5-312	LOX Testing	716'	912	Parking Toll Booth	690'	913	Parking Toll Booth	690'	
1-52	Guard Shack	682'		4-09-T1	Shed	690'	5-119	Emergency Generator for Building 107	721'	5-313	POL Storage	717'	914	Parking Toll Booth	690'	915	Parking Toll Booth	690'	
1-53	Taxicab Restrooms	686'		4-09-T2	Storage	688'	5-120	Fire Protection Pumphouse	708'	5-401	701'	745'	916	Parking Toll Booth	690'	917	Parking Toll Booth	690'	
2-02	Hangar	713'	2-A	4-10	Fuel Pump House	692'	5-121	Airlift Control Flight (ALCF) Storage	727'	5-404	Smokehouse	723'	918	Parking Toll Booth	690'	919	Parking Toll Booth	690'	
2-03	Hangar	713'		4-11	FAA	683'	5-122	CES Equipment Shop	719'	5-500	Storage	711'	920	Parking Toll Booth	690'	921	Parking Toll Booth	690'	
2-03F	Fuel Cabinet	682'		4-13	Guard Shack	694'	5-125	Services Storage	722'	5-501	Storage	709'	922	Parking Toll Booth	690'	923	Parking Toll Booth	690'	
2-04	Hangar	714'	2-A	4-16	Hangar	730'	NA	5-126	Medical Maintenance	722'	5-502	Storage	711'	924	Parking Toll Booth	690'	925	Parking Toll Booth	690'
2-04F	Fuel Cabinet	683'		4-18	Ground Run-Up Enclosure Office	706'	NA	5-127	Medical Maintenance	722'	5-501	Storage	709'	926	Parking Toll Booth	690'	927	Parking Toll Booth	690'
2-05	Hangar	713'		4-19	Ground Run-Up Enclosure	706'	NA	5-128	Medical Maintenance	722'	5-501	Storage	709'	928	Parking Toll Booth	690'	929	Parking Toll Booth	690'
2-05F	Fuel Cabinet	680'	3-A	4-20	Equipment Shed	685'	4-A	5-129	Communications Flight	721'	5-501	Storage	709'	930	Parking Toll Booth	690'	931	Parking Toll Booth	690'
2-06	USPS	704'		4-21	Highway Storage	-		5-130	CES Shop	721'	5-501	Storage	709'	932	Parking Toll Booth	690'	933	Parking Toll Booth	690'
2-06F	Fuel Cabinet	691'		4-22	Highway Storage	-		5-131	Communications Flight Storage	721'	5-501	Storage	709'	934	Parking Toll Booth	690'	935	Parking Toll Booth	690'
3-01	Cargo	734'	3-A	4-23	Highway Storage	694'	5-132	Services Storage	718'	5-501	Storage	709'	936	Parking Toll Booth	690'	937	Parking Toll Booth	690'	
3-02	Cargo	735'		NA	4-24	Highway Storage	690'	5-133	CES Shop	725'	5-501	Storage	709'	938	Parking Toll Booth	690'	939	Parking Toll Booth	690'
3-03	GSE Fuel Station	718'		NA	4-25	Highway Storage	-	5-134	Base Storage Facility	720'	5-501	Storage	709'	940	Parking Toll Booth	690'	941	Parking Toll Booth	690'
3-05	Remote Lot B Teller Box	725'	3-A	4-28	Regulator Building	694'	5-135	CES Shop	731'	5-501	Storage	709'	942	Parking Toll Booth	690'	943	Parking Toll Booth	690'	
3-06	Remote Lot B Shelter	725'		5-01	Hangar	769'	NA	5-140	Medical Training Facility	733'	5-501	Storage	709'	944	Parking Toll Booth	690'	945	Parking Toll Booth	690'
3-07	Remote Lot B Shelter	720'		4-29	Pump Control Shed	-	3-A	5-200	Security Forces	724'	5-501	Storage	709'	946	Parking Toll Booth	690'	947	Parking Toll Booth	690'
3-08	Remote Lot B Shelter	722'	4-30	Pump Control Shed	-	5-201		Hazardous Material Storage	727'	5-501	Storage	709'	948	Parking Toll Booth	690'	949	Parking Toll Booth	690'	
3-09	Remote Lot B Shelter	725'	5-03	Fuel Farm Shack	721'	NA		5-202	Security Forces Storage	721'	5-501	Storage	709'	950	Parking Toll Booth	690'	951	Parking Toll Booth	690'
3-10	Maintenance Hangar	781'	3-A	5-04	Storage Building	733'	5-203	Visitor Control Center (Pass and ID)	736'	5-501	Storage	709'	952	Parking Toll Booth	690'	953	Parking Toll Booth	690'	
3-10A	Shed	722'		5-06	LOC Shelter	716'	5-204	Truck Inspection Facility	745'	5-501	Storage	709'	954	Parking Toll Booth	690'	955	Parking Toll Booth	690'	
3-11	Reference Transmitter ASDE-X	732'		5-07	Tunnel Building	690'	5-205	Base Supply/CES/Storage/Wing Plans/Readiness Flight	727'	5-501	Storage	709'	956	Parking Toll Booth	690'	957	Parking Toll Booth	690'	
3-12	Remote Lot A Shelter	715'	3-A	5-08	MM Shelter	711'	5-205A	Shed	-	5-501	Storage	709'	958	Parking Toll Booth	690'	959	Parking Toll Booth	690'	
3-13	Remote Lot A Shelter	712'		5-09	Tunnel Control Building	699'	5-206	Security Forces Equipment Facility	729'	5-501	Storage	709'	960	Parking Toll Booth	690'	961	Parking Toll Booth	690'	
3-14	Remote Lot A Shelter	710'		5-01	Hangar	769'	NA	5-207	Recruiting	737'	5-501	Storage	709'	962	Parking Toll Booth	690'	963	Parking Toll Booth	690'
3-15	Remote Lot A Teller Box	712'	3-A	5-03	Fuel Farm Shack	721'	NA	5-208	Propulsion Shop	742'	5-501	Storage	709'	964	Parking Toll Booth	690'	965	Parking Toll Booth	690'
3-16	Picnic Shelter	728'		5-06	LOC Shelter	716'	5-209	Former Military Building	734'	5-501	Storage	709'	966	Parking Toll Booth	690'	967	Parking Toll Booth	690'	
3-17	Power Plant	726'		5-07	Tunnel Building	690'	5-210	Former Military Building	730'	5-501	Storage	709'	968	Parking Toll Booth	690'	969	Parking Toll Booth	690'	
3-18	FAA Storage	716'	3-A	5-08	MM Shelter	711'	5-211	Emergency Generator for Building 212	714'	5-501	Storage	709'	970	Parking Toll Booth	690'	971	Parking Toll Booth	690'	
3-19	Airtrack Train Station	738'		5-09	Tunnel Control Building	699'	5-212	Former Military ARFF Station	721'	5-501	Storage	709'	972	Parking Toll Booth	690'	973	Parking Toll Booth	690'	
3-20	RTR Shelter	705'		5-10	Engine Generator (SX) MKEH	698'	5-213	CES Firefighters Admin / Training	715'	5-501	Storage	709'	974	Parking Toll Booth	690'	975	Parking Toll Booth	690'	
3-21	GS Shelter	717'	3-A	5-10A	Fuel Tank	694'	5-214	Golf Range	687'	5-501	Storage	709'	976	Parking Toll Booth	690'	977	Parking Toll Booth	690'	
3-22	MALSR Shelter	735'		5-11	Glide Slope (GS) MKE Shelter	-	5-216	Hangar Air Compressor/MFFF Fire Suppression System	714'	5-501	Storage	709'	978	Parking Toll Booth	690'	979	Parking Toll Booth	690'	
3-23	LOC Shelter	738'		5-12	Golf Range Office	692'	5-217	Maintenance Hangar	748'	5-501	Storage	709'	980	Parking Toll Booth	690'	981	Parking Toll Booth	690'	
3-24	Guard Shack	-	3-A	5-12B	Golf Range	685'	5-17	FAA	699'	5-501	Storage	709'	982	Parking Toll Booth	690'	983	Parking Toll Booth	690'	
3-25	USGS Monitoring Station	707'		5-12C	Golf Range	676'	5-17A	FAA	702'	5-501	Storage	709'	984	Parking Toll Booth	690'	985	Parking Toll Booth	690'	
3-26	SSALR Shelter	734'		5-13	Garden Shed	671'	5-17B	FAA	698'	5-501	Storage	709'	986	Parking Toll Booth	690'	987	Parking Toll Booth	690'	
3-27A	Shed	-	3-A	5-14	Picnic Shelter	707'	5-100	Main Gate Overwatch	725'	5-501	Storage	709'	988	Parking Toll Booth	690'	989	Parking Toll Booth	690'	
3-27B	Storage	-		5-101	Civilian / Military Personnel / Finance	726'	5-101	Civilian / Military Personnel / Finance	726'	5-501	Storage	709'	990	Parking Toll Booth	690'	991	Parking Toll Booth	690'	
3-27C	Storage	-		5-102	Wing Headquarters	734'	5-102	Wing Headquarters	734'	5-501	Storage	709'	992	Parking Toll Booth	690'	993	Parking Toll Booth	690'	
3-29	Equipment Shelter	-	3-A	5-103	Emergency Generator for Building 102	721'	5-103	Emergency Generator for Building 102	721'	5-501	Storage	709'	994	Parking Toll Booth	690'	995	Parking Toll Booth	690'	
4-01	ARFF Station	706'		5-104	Vehicle Ops / Maintenance	741'	5-104	Vehicle Ops / Maintenance	741'	5-501	Storage	709'	996	Parking Toll Booth	690'	997	Parking Toll Booth	690'	
4-02	Maintenance Shed	709'		5-104A	Storage	724'	5-104A	Storage	724'	5-501	Storage	709'	998	Parking Toll Booth	690'	999	Parking Toll Booth	690'	
4-02A	Maintenance Storage Shed	714'	3-A	5-104B	Storage	724'	5-104B	Storage	724'	5-501	Storage	709'	1000	Parking Toll Booth	690'	1001	Parking Toll Booth	690'	
4-03	Maintenance Shed	710'		5-104C	Vehicle Ops / Maintenance	723'	5-104C	Vehicle Ops / Maintenance	723'	5-501	Storage	709'	1002	Parking Toll Booth	690'	1003	Parking Toll Booth	690'	
4-04A	Sheriff Dog Kennel	699'		5-105	Pallet Storage	730'	5-105	Pallet Storage	730'	5-501	Storage	709'	1004	Parking Toll Booth	690'	1005	Parking Toll Booth	690'	
4-04A	Combined Maintenance Facility	707'																	



SOURCES:
MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration Airport Data Information Portal (ADIP), March 2019; Milwaukee County, December 2021 (property map).
PREPARED BY:
Ricondo & Associates, Inc.

NOTES:
1/ Base Map was developed using AGIS data provided by General Mitchell International Airport in December 2013 and March 2014 and aerial photo from USDA dated 2013.
2/ The Building Restriction Line encompasses the Runway Protection Zone, the Runway/Taxiway Object Free Area, Runway Visibility Zone, Obstacle Free Zone, Navaid critical areas, and airport areas with less than 35' clearance under the FAR Part 77 Surfaces.
3/ All Latitude/Longitude coordinates provided in NAD83, all elevations provided in NAVD 88.
4/ See the Inner Portion of the Approach Surface Drawings for intersections of roadways and railroads with the approach surfaces.
5/ See the Terminal Drawings for the Navaid clearances, aircraft parking, hold line, and apron distances/dimensions.
6/ See Airport Property Map for aviation easements that are located beyond the limits of this sheet.
7/ All existing and future movement area pavements are visible by the ATCT.
8/ Fence heights shown for Existing AOA Fence where available.
9/ The Howell Avenue easement was granted by Milwaukee County to the State Highway Commission of Wisconsin to enable the Howell Avenue tunnel project.
10/ See Inner Approach Sheets (Sheets 14-16, 19-24, and 27-29 for a clearer depiction of runway surfaces and safety areas.
11/ The base linework used to prepare this ALP set was collected in 2013 as part of the prior ALP drawing set preparation. New obstruction data and imagery was collected in 2018 (Project: MKE-223842) and used to supplement the data depicted in this drawing set.
12/ For additional details on dimensions for runway and taxiway surfaces, please refer to the Airport Data Sheet (Sheet 1).
13/ See Airport Data Sheet (Sheet 2) for Existing Buildings table.

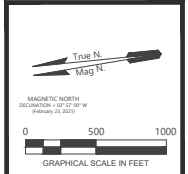
ARP	
RUNWAY	EXISTING
ARP Symbol	
Latitude (N)	42° 56' 48.96"
Longitude (W)	87° 53' 49.43"

SURVEY MONUMENTS		
MONUMENT	LATITUDE (N)	LONGITUDE (W)
NG0353 - PAC	42° 57' 31.15"	87° 54' 03.88"
AA4606 - SAC	42° 56' 25.51"	87° 54' 34.97"

LEGEND	
EXISTING AIRPORT FACILITIES	RUNWAY SURFACES/NAVIGATION
Airport Property Line	Building Restriction Line (BRL)
Apron/Runway/Taxiway Pavement	Runway Protection Zone (RPZ)
Shoulder Pavement	Runway Safety Area (RSA)
Aviation Easement	Runway Object Free Area (ROFA)
On-Airport Buildings	Runway Visibility Zone (RVZ)
Off-Airport Buildings	Runway Obstacle Free Zone (ROFZ)
Vehicle Service Road (VSR)	Taxiway Safety Area (TSA)
Landside Roadways	Taxiway Object Free Area (TOFA)
Air Operations Area (AOA) Fence	Part 77 Approach Surface
Topographical Contours	TERPS Departure Surface
Water Features	Threshold Siting Surface (TSS)
Windcone	Glidepath Qualification Surface (GQS)
Navigational Aid (NAVAID)	Precision Obstacle Free Zone (POFZ)
Airport Beacon	LOC & GS Critical Area
Runway End Identifier Lights (REIL)	
Survey Monument	
Security Gate	
Tank	

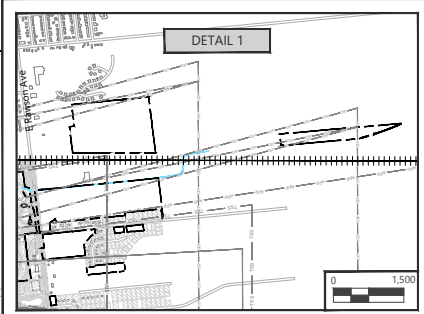


EXISTING AIRPORT LAYOUT PLAN



No	Revisions	Date

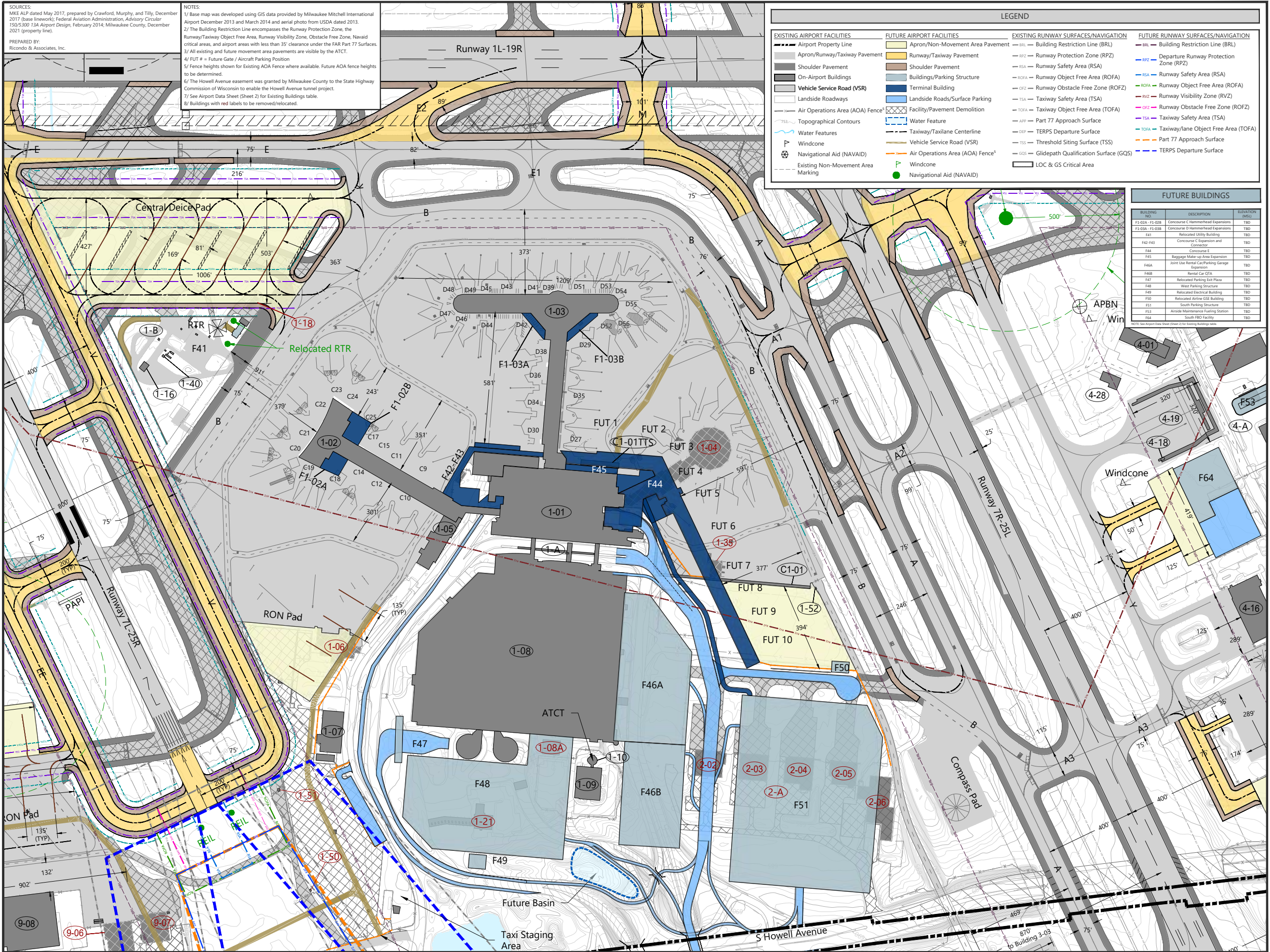
DRAWN BY: SN
CHECKED BY: MDT
September 2022
Sheet 03 of 35



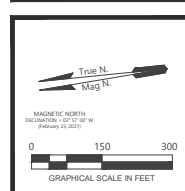
SOURCES:
MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base line work); Federal Aviation Administration, Advisory Circular 150/5300 13A Airport Design, February 2014; Milwaukee County, December 2021 (property line).

PREPARED BY:
Ricondo & Associates, Inc.

NOTES:
1/ Base map was developed using GIS data provided by Milwaukee Mitchell International Airport December 2013 and March 2014 and aerial photo from USDA dated 2013.
2/ The Building Restriction Line encompasses the Runway Protection Zone, the Runway/Taxiway Object Free Area, Runway Visibility Zone, Obstacle Free Zone, Navigational critical areas, and airport areas with less than 35' clearance under the FAR Part 77 Surfaces.
3/ All existing and future movement area pavements are visible by the ATCT.
4/ FUT # = Future Gate / Aircraft Parking Position
5/ Fence heights shown for Existing AOA Fence where available. Future AOA fence heights to be determined.
6/ The Howell Avenue easement was granted by Milwaukee County to the State Highway Commission of Wisconsin to enable the Howell Avenue tunnel project.
7/ See Airport Data Sheet (Sheet 2) for Existing Buildings table.
8/ Buildings with red labels to be removed/relocated.

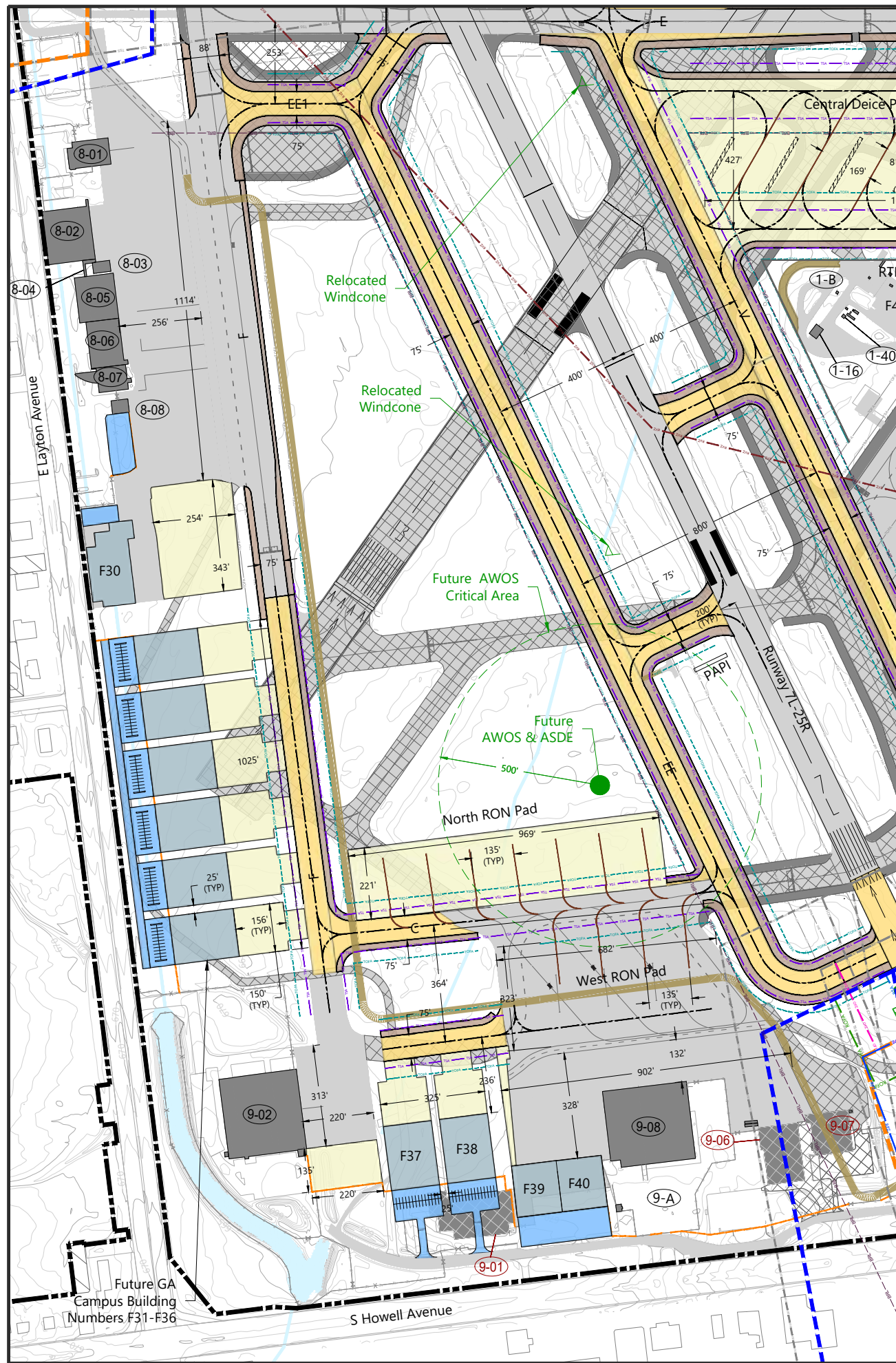


TERMINAL AREA DRAWING



No.	Revisions	Date

DRAWN BY: SN
CHECKED BY: MDT
September 2022
Sheet 05 of 35



FUTURE BUILDINGS		
BUILDING NO.	DESCRIPTION	ELEVATION (MSL)
F1-F29	General Aviation Hangars	TBD
F30	Relocated Tenant Building	TBD
F31-F36	General Aviation Hangars	TBD
F37-F38	General Aviation Hangars	TBD
F39-F40	Relocated Tenant Buildings	TBD

2016: New Airport Data Sheet (Sheet 2) for Existing Buildings table.

NOTES:

1/ Base Map was developed using GIS data provided by Milwaukee Mitchell International Airport in December 2013 and March 2014 and aerial photo from USDA dated 2013.

2/ The Building Restriction Line encompasses the Runway Protection Zone, the Runway/Taxiway Object Free Area, Runway Visibility Zone, Obstacle Free Zone, Navaid critical areas, and airport areas with less than 35' clearance under the FAR Part 77 Surfaces.

3/ All existing and future movement area pavements are visible by the ATCT.

4/ Fence heights shown for Existing AOA Fence where available. Future AOA fence heights to be determined.

5/ See Airport Data Sheet (Sheet 2) for Existing Buildings table.

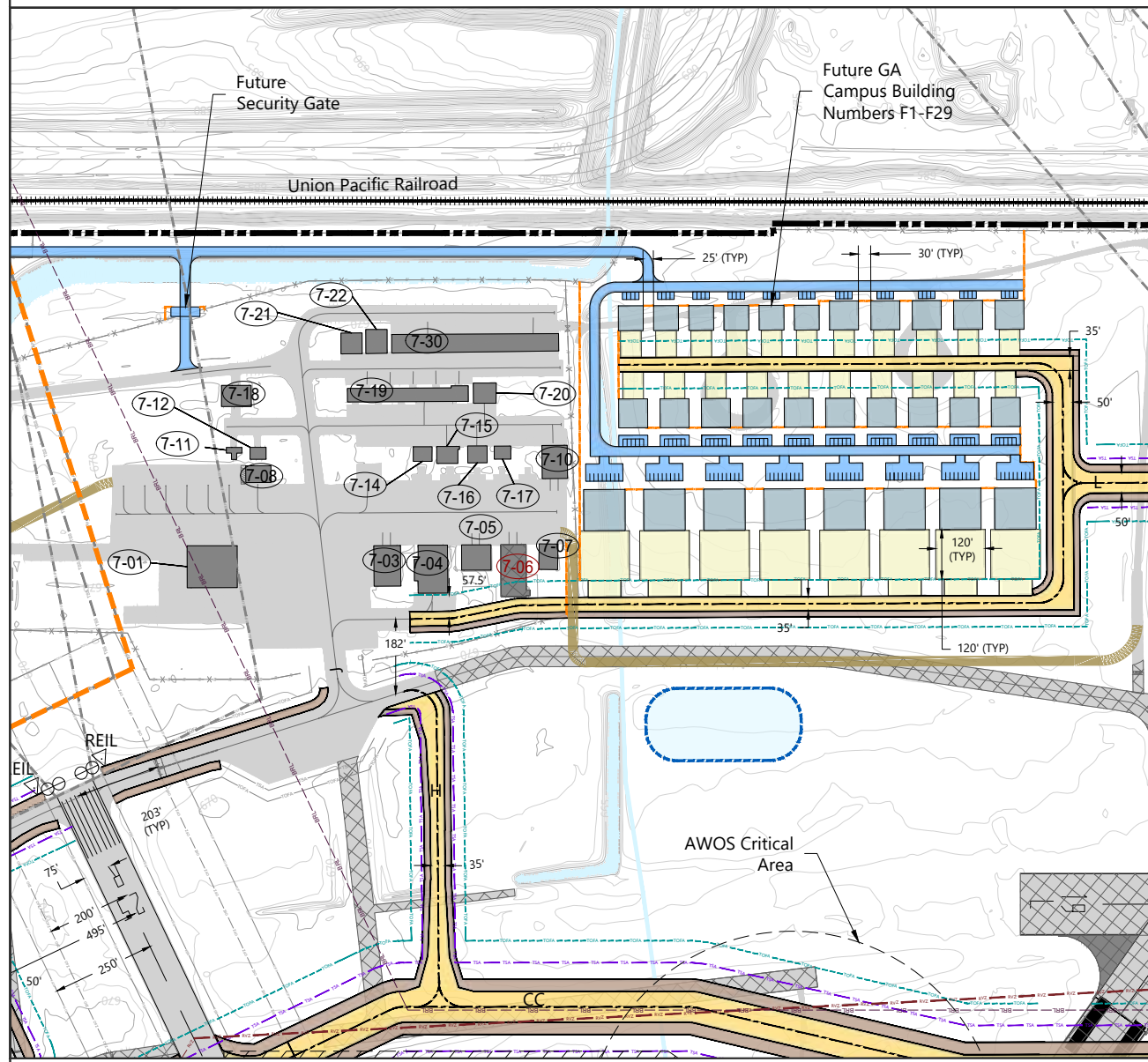
6/ Buildings with red labels to be removed/relocated.

SOURCES:

MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration, Advisory Circular 150/5300-13A Airport Design, February 2014; Milwaukee County, December 2021 (property line).

PREPARED BY:

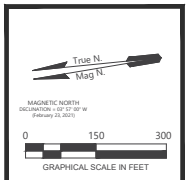
Ricondo & Associates, Inc.



LEGEND			
EXISTING AIRPORT FACILITIES		FUTURE AIRPORT FACILITIES	
--- Airport Property Line	--- Apron/Runway/Taxiway Pavement	--- Apron/Non-Movement Area Pavement	--- Runway/Taxiway Pavement
--- Shoulder Pavement	--- On-Airport Buildings	--- Shoulder Pavement	--- Buildings
--- Vehicle Service Road (VSR)	--- Landside Roadways	--- Facility/Pavement Demolition	--- Water Feature
--- Air Operations Area (AOA) Fence	--- Topographical Contours	--- Taxiway/Taxilane Centerline	--- Vehicle Service Road (VSR)
--- Windcone	--- Navigational Aid (NAVAID)	--- Windcone	--- Navigational Aid (NAVAID)
EXISTING RUNWAY SURFACES/NAVIGATION		FUTURE RUNWAY SURFACES/NAVIGATION	
--- BRL --- Building Restriction Line (BRL)	--- RPZ --- Runway Protection Zone (RPZ)	--- RSA --- Runway Safety Area (RSA)	--- ROFA --- Runway Object Free Area (ROFA)
--- OFZ --- Runway Obstacle Free Zone (OFZ)	--- TSA --- Taxiway Safety Area (TSA)	--- TOFA --- Taxiway Object Free Area (TOFA)	--- APP --- Part 77 Approach Surface
--- DEP --- TERPS Departure Surface	--- TSS --- Threshold Siting Surface (TSS)	--- GQS --- Glidepath Qualification Surface (GQS)	--- LOC & GS Critical Area
--- BRL --- Building Restriction Line (BRL)	--- RPZ --- Departure Runway Protection Zone (RPZ)	--- RSA --- Runway Safety Area (RSA)	--- ROFA --- Runway Object Free Area (ROFA)
--- RVZ --- Runway Visibility Zone (RVZ)	--- OFZ --- Runway Obstacle Free Zone (OFZ)	--- TSA --- Taxiway Safety Area (TSA)	--- TOFA --- Taxiway/lane Object Free Area (TOFA)
--- APP --- Part 77 Approach Surface	--- DEP --- TERPS Departure Surface	--- TSS --- Threshold Siting Surface (TSS)	--- GQS --- Glidepath Qualification Surface (GQS)

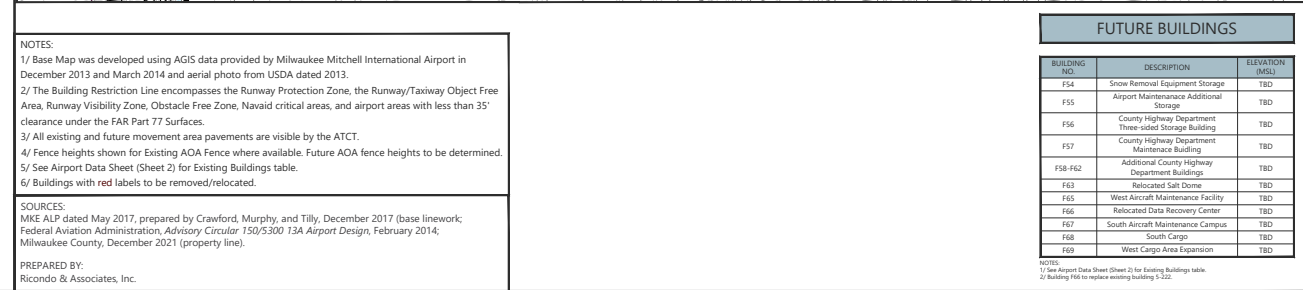
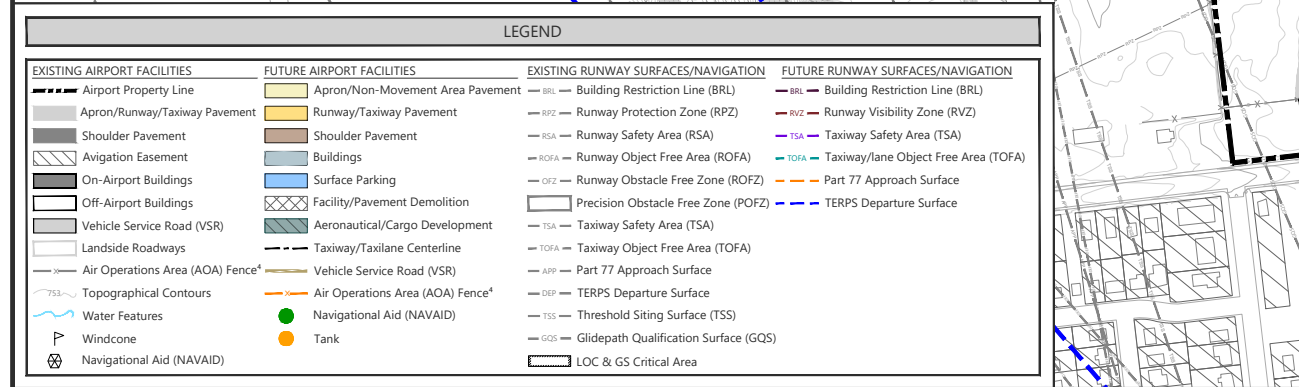


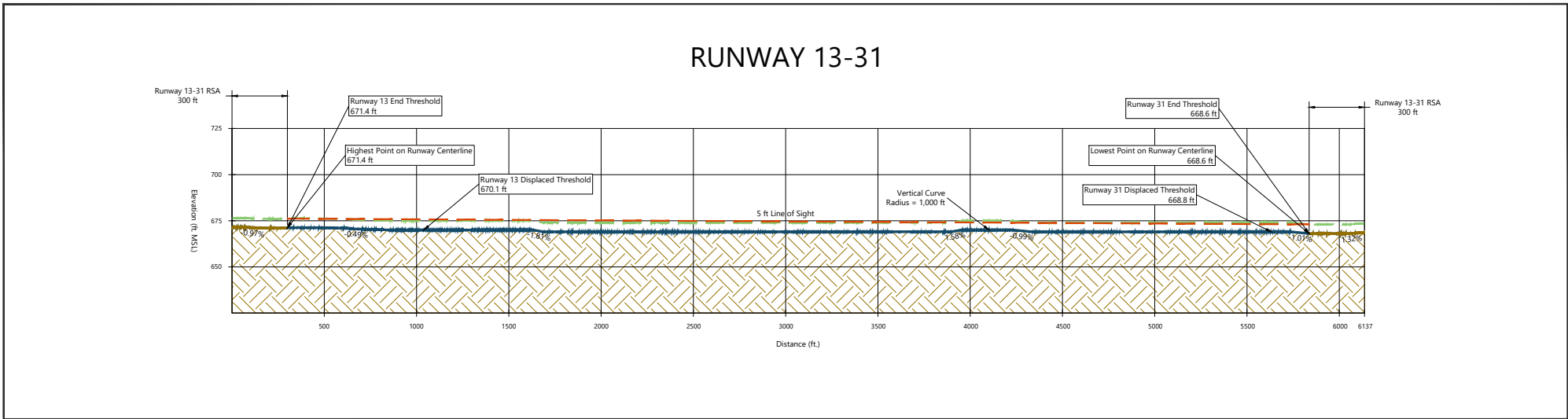
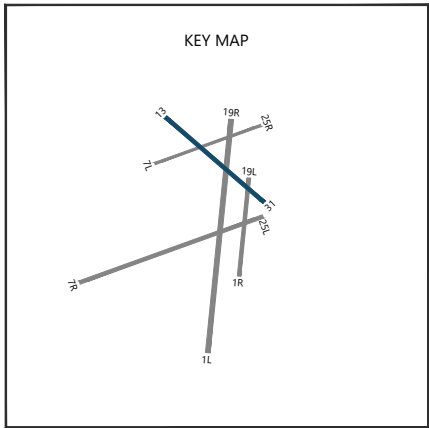
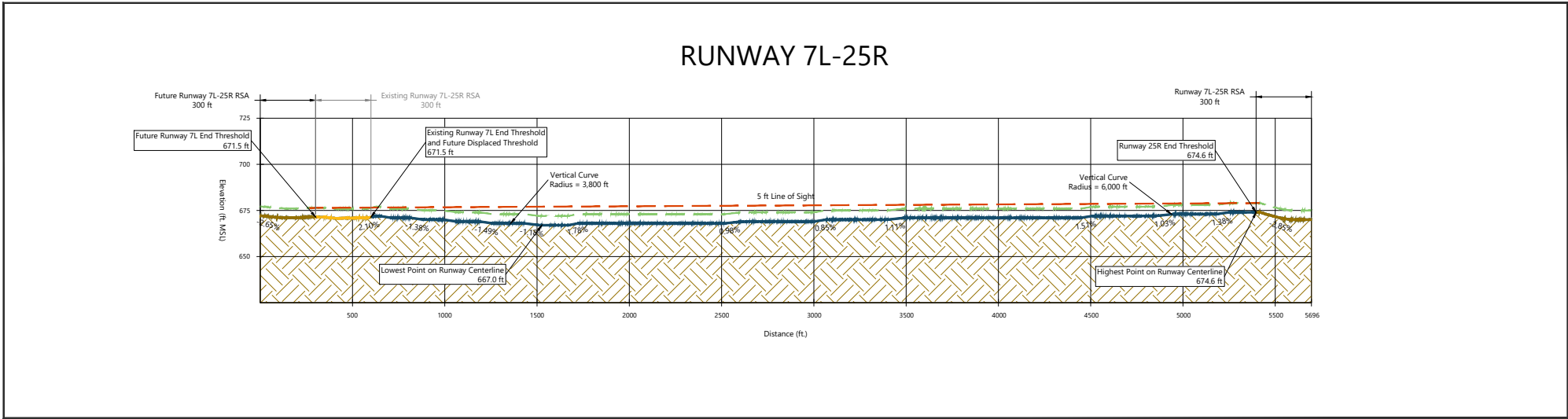
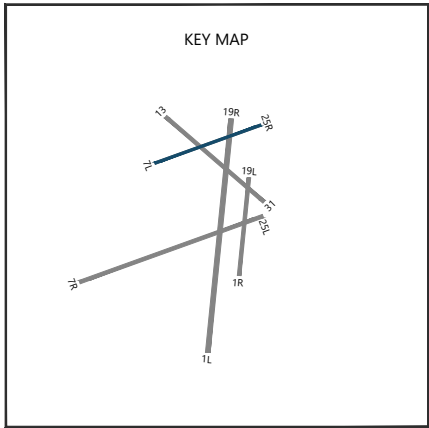
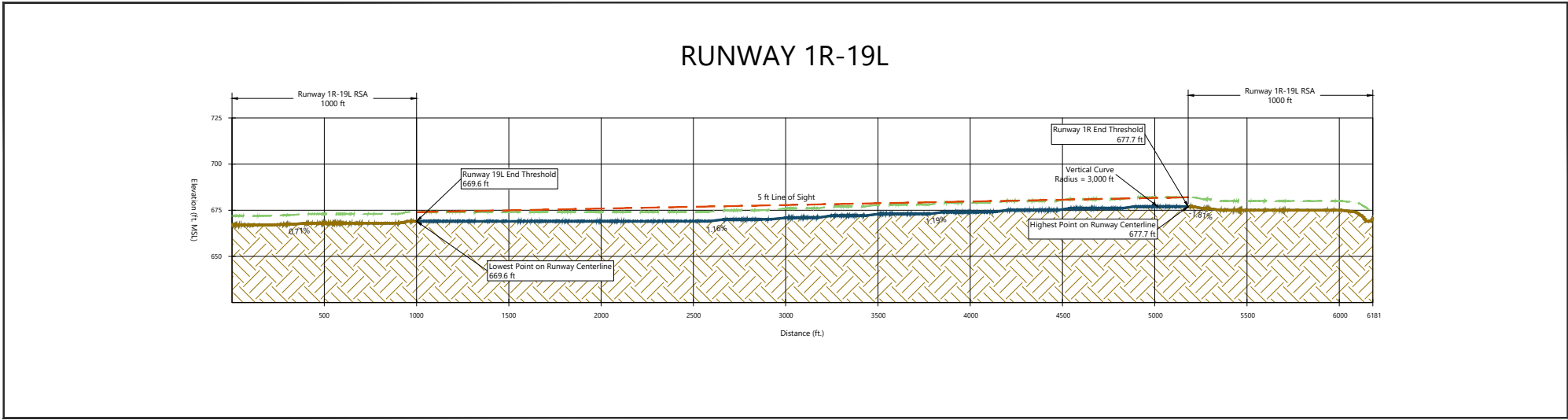
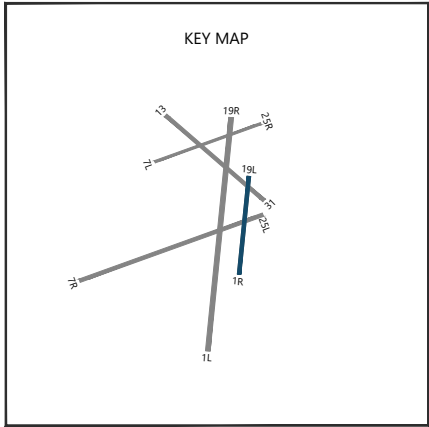
GENERAL AVIATION AREA DRAWING



No.	Revisions	Date

DRAWN BY: SN
CHECKED BY: MDT
September 2022
Sheet 06 of 35





LEGEND

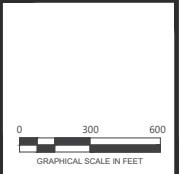
5-foot Line-of-Sight (Runway Ends)
5-foot Runway Centerline Offset
Existing Ground
Future Runway Extension

SOURCE:
NIKE ALP dated May 2017, prepared by Crawford,
Murphy, and Tilly, December 2017 (base linework).
PREPARED BY:
Ricondo & Associates, Inc.

NOTE:
1/ Vertical curve radii estimated using ground
contour data.

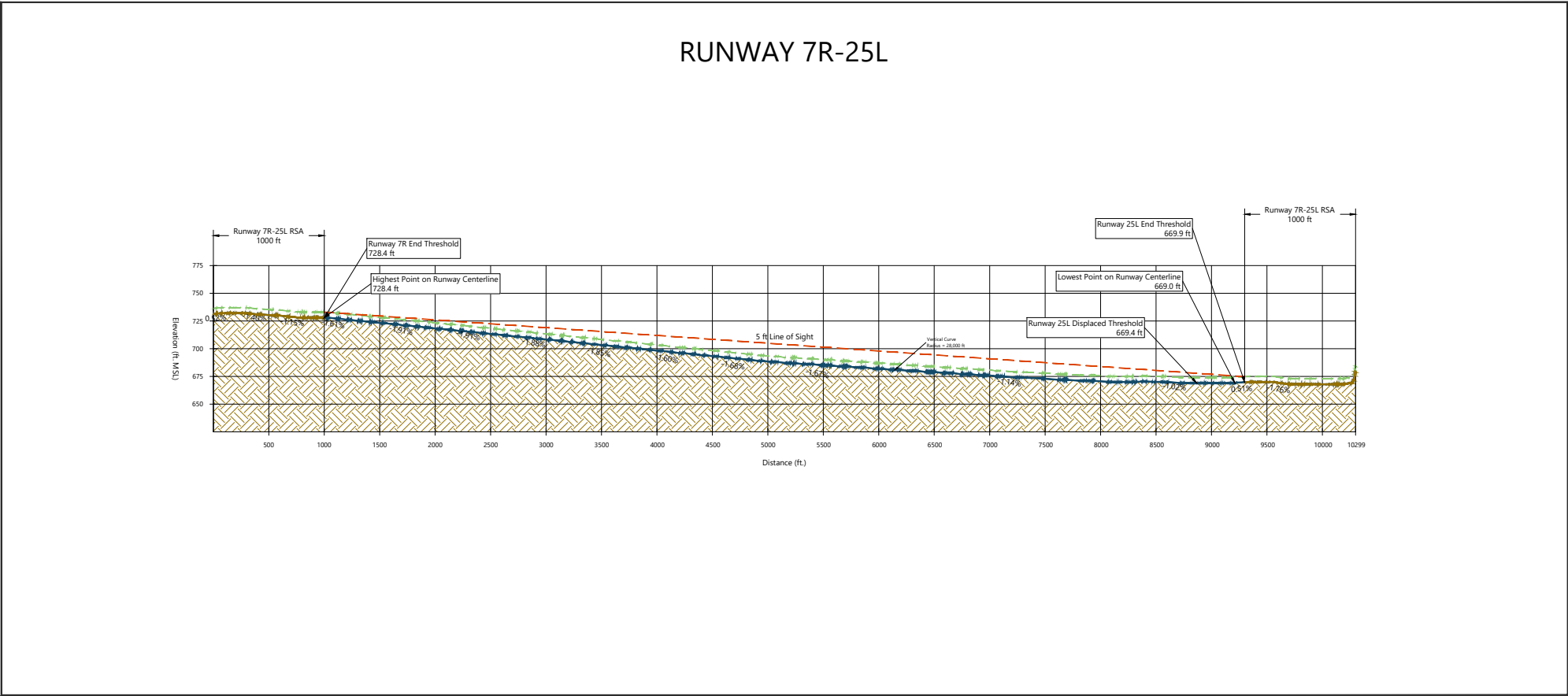
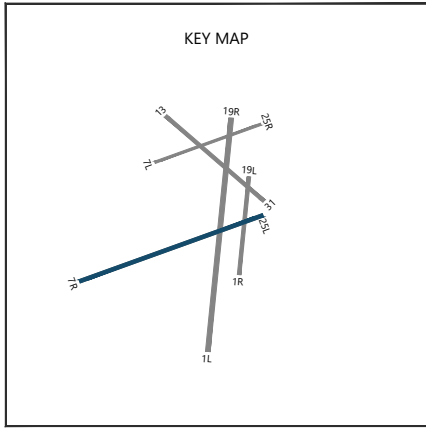
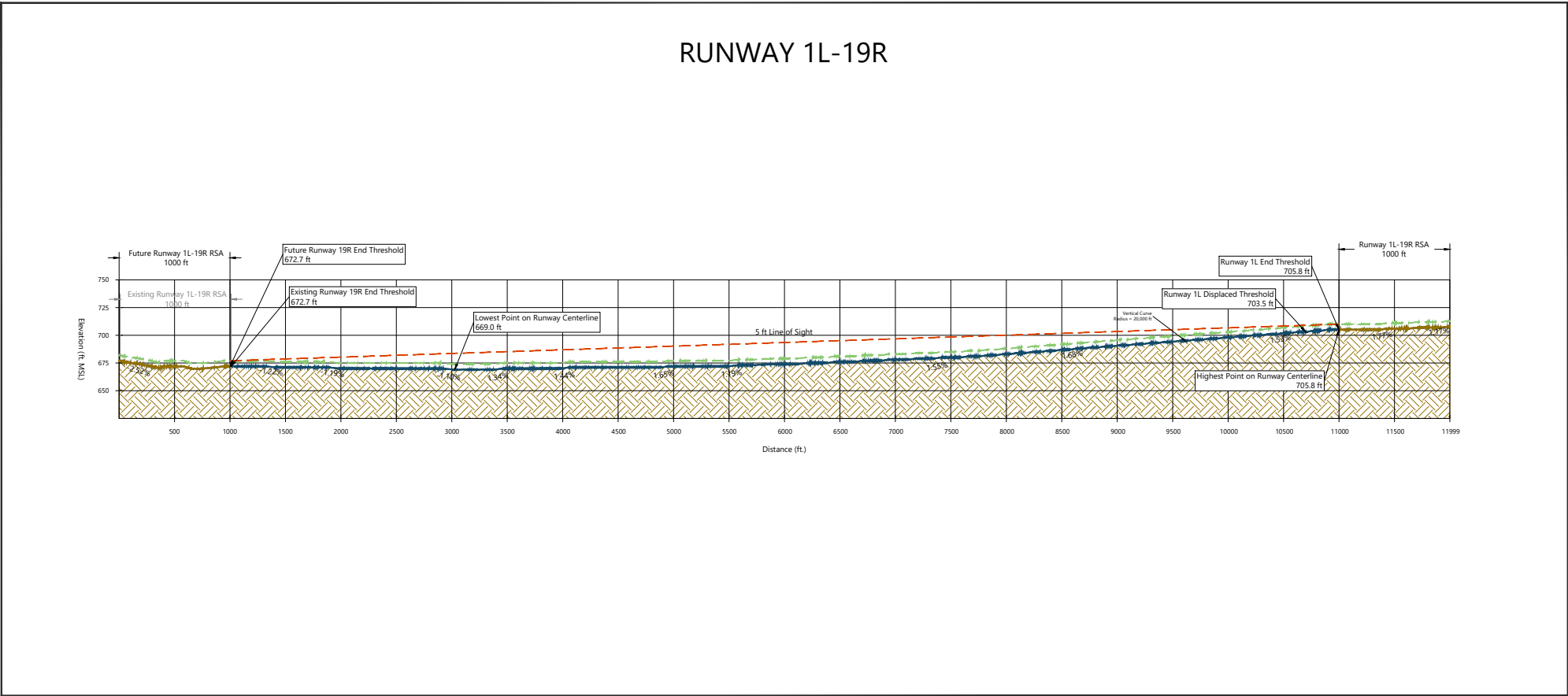
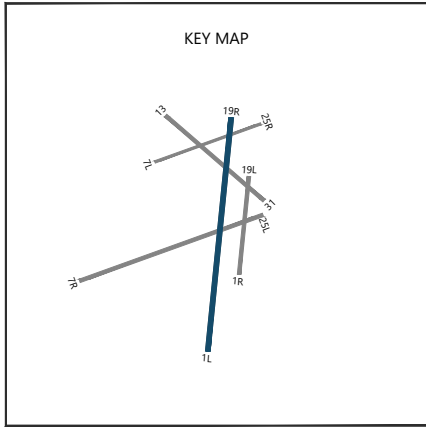


RUNWAY CENTERLINE PROFILES
RUNWAYS 1R-19L, 7L-25R, & 13-31



No.	Revisions	Date

DRAWN BY: SN
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September 2022
Sheet 08 of 35



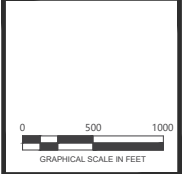
LEGEND	
	5-foot Line-of-Sight (Runway Ends)
	5-foot Runway Centerline Offset
	Existing Ground
	Future Runway Extension

NOTE:
1/ Vertical curve radii estimated using ground contour data.

SOURCE:
MIKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework).
PREPARED BY:
Ricondo & Associates, Inc.



RUNWAY CENTERLINE PROFILES
RUNWAYS 1L-19R & 7R-25L



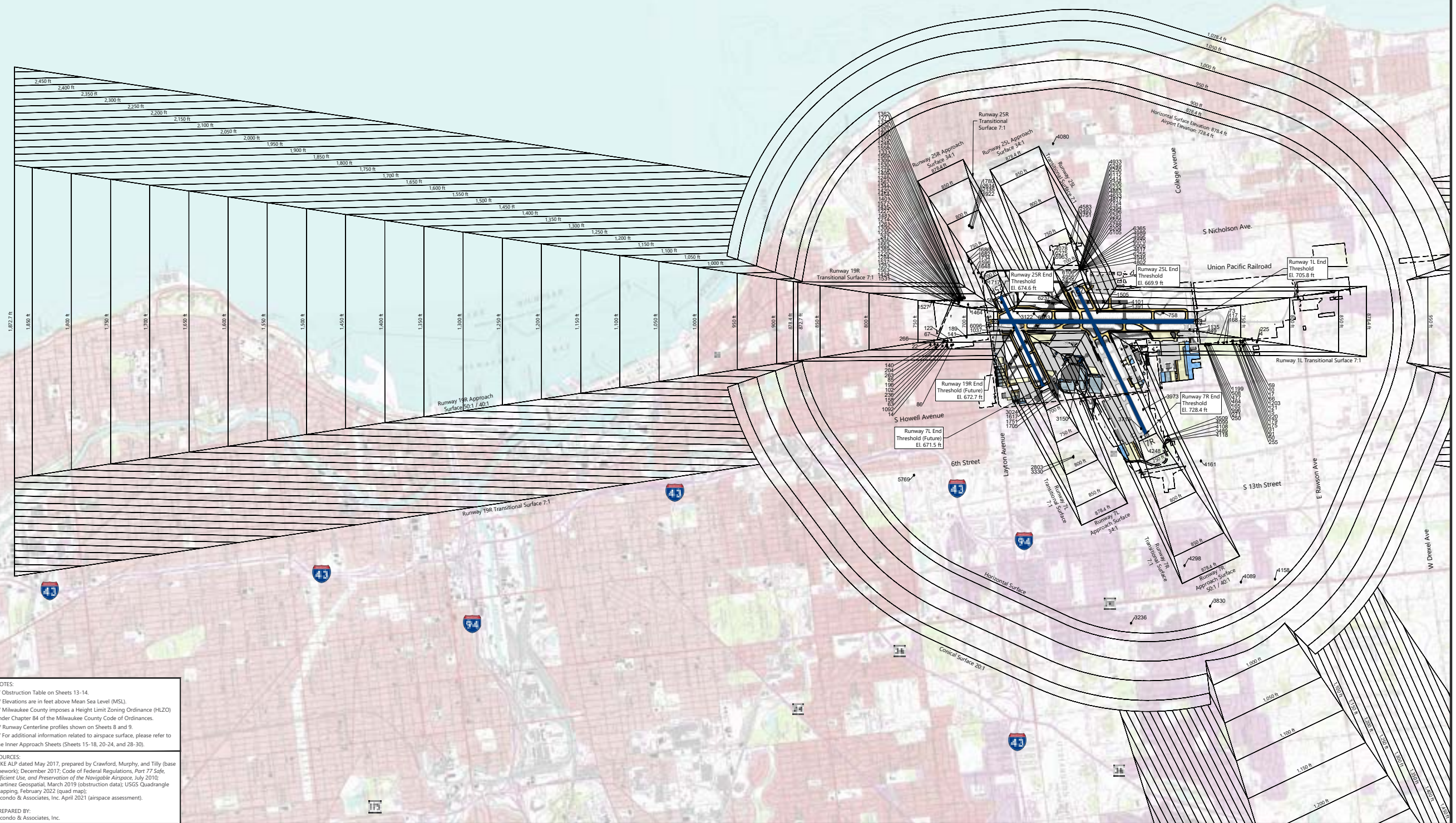
No.	Revisions	Date

DRAWN BY: SN
CHECKED BY: MDT
September 2022
Sheet 09 of 35

A 3D perspective diagram of a runway cross-section. The runway is a wide, flat horizontal surface. To the left, a 'RUNWAY CENTERLINE' is marked. The runway is bordered by a 'PRIMARY SURFACE' which has a '1:00' slope. Beyond the primary surface is a 'TRANSITIONAL SURFACE' with a '7:1 SLOPE'. Further out is a 'CONICAL SURFACE' with a '20:1 SLOPE'. To the right of the runway, there is an 'APPROACH SURFACE' with a '40:1 SLOPE FOR 60,000' and another 'TRANSITIONAL SURFACE' with a '7:1 SLOPE'. Elevation markers on the left side indicate heights of 150, 200, 4,000, and 10,000. A 'SOIL SLOPE FOR 10,000' is also indicated near the 10,000 elevation mark.

Surface	Runway	Dimension		Slope
		Length	Width	
Primary	1L-19R	10,400 ft	1,000 ft	N/A
	7L-25R	5,496 ft	500 ft	
	7R-25L	8,700 ft	1,000 ft	
Approach	1L	10,000 ft / 40,000 ft	1,000 ft / 16,000 ft	50:1 / 40:1
	19R	10,000 ft / 40,000 ft	1,000 ft / 16,000 ft	50:1 / 40:1
	7L	10000 ft	500 ft / 3,500 ft	34:1
	25R	10000 ft	500 ft / 3,500 ft	34:1
	7R	10,000 ft / 40,000 ft	1,000 ft / 16,000 ft	50:1 / 40:1
	25L	10000 ft	1,000 ft / 3,500 ft	34:1
Transitional	1L-19R	5,000 ft*	-	7:1
	7L-25R			
	7R-25L			
Conical	-	4,000 ft*	-	20:1

*Represents horizontal length from beginning of surfaces, not total length



NOTES:

- 1/ Obstruction Table on Sheets 13-14.
- 2/ Elevations are in feet above Mean Sea Level (MSL).
- 3/ Milwaukee County imposes a Height Limit Zoning Ordinance (HLZO) under Chapter 84 of the Milwaukee County Code of Ordinances.
- 4/ Runway Centerline profiles shown on Sheets 8 and 9.
- 5/ For additional information related to airspace surface, please refer to the Inner Approach Sheets (Sheets 15-18, 20-24, and 28-30).

SOURCES:
MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly (base
line work); December 2017; Code of Federal Regulations, *Part 77 Safe,
Efficient Use, and Preservation of the Navigable Airspace*, July 2010;
Martinez Geospatial, March 2019 (obstruction data); USGS Quadrangle
Mapping, February 2022 (quad map);
Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:
Ricondo & Associates, Inc.



MIKE
MILWAUKEE
MILWAUKEE INTERNATIONAL AIRPORT



RICONDO®

AIRPORT AIRSPACE DRAWING
SHEET 1 OF 3



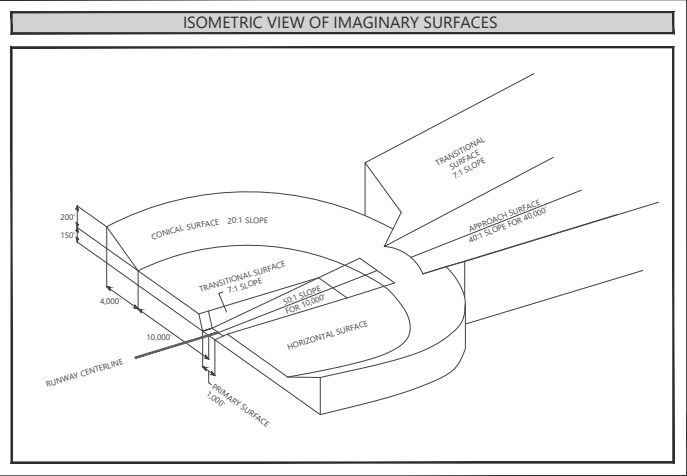
MAGNETIC NORTH
DECLINATION = 2° 57' 00" W
(February 23, 2021)

2,000 4,000

GRAPHICAL SCALE IN FEET

[illegible]

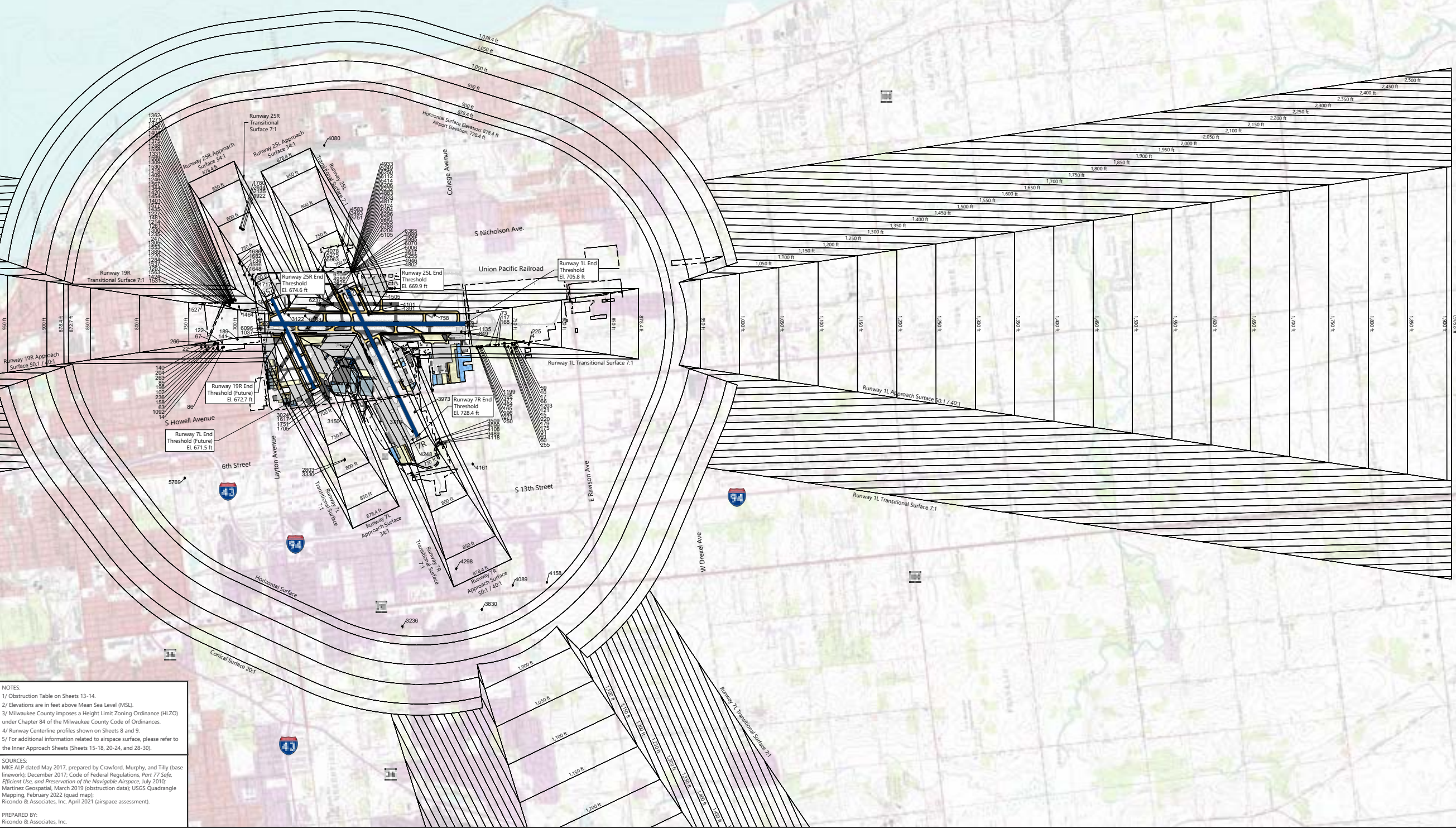
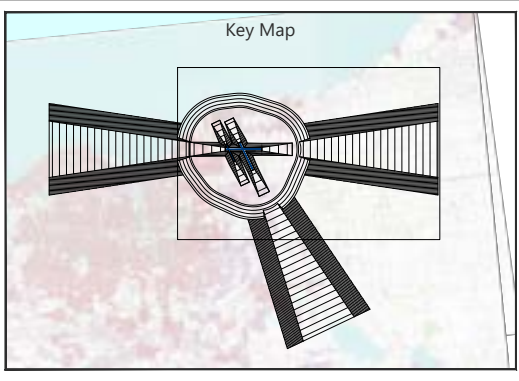
DRAWN BY: SN / JMJ
CHECKED BY: DGR
September 2022
Sheet 10 of 35



AIRSPACE SURFACES DIMENSIONS

Surface	Runway	Dimension		Slope
		Length	Width	
Primary	1L-19R	10,400 ft	1,000 ft	N/A
	7L-25R	5,496 ft	500 ft	
	7R-25L	8,700 ft	1,000 ft	
Approach	1L	10,000 ft / 40,000 ft	1,000 ft / 16,000 ft	50:1 / 40:1
	19R	10,000 ft / 40,000 ft	1,000 ft / 16,000 ft	50:1 / 40:1
	7L	10000 ft	500 ft / 3,500 ft	34:1
	25R	10000 ft	500 ft / 3,500 ft	34:1
	7R	10,000 ft / 40,000 ft	1,000 ft / 16,000 ft	50:1 / 40:1
	25L	10000 ft	1,000 ft / 3,500 ft	34:1
Transitional	1L-19R	5,000 ft*	-	7:1
	7L-25R			
	7R-25L			
Conical	-	4,000 ft*	-	20:1

*Represents horizontal length from beginning of surface, not total length.



NOTES

- Obstruction Table on Sheets 13-14.
- Elevations are in feet above Mean Sea Level (MSL).
- Milwaukee County imposes a Height Limit Zoning Ordinance (HLZO) under Chapter 84 of the Milwaukee County Code of Ordinances.
- Runway Centerline profiles shown on Sheets 8 and 9.
- For additional information related to airspace surface, please refer to the Inner Approach Sheets (Sheets 15-18, 20-24, and 28-30).

SOURCES:

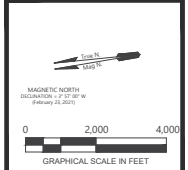
MIKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly (base line work); December 2017; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010; Martinez Geospatial, March 2019 (obstruction data); USGS Quadrangle Mapping, February 2022 (quad map); Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:

Ricondo & Associates, Inc.



AIRPORT AIRSPACE DRAWING
SHEET 2 OF 3



No.	Revisions	Date

DRAWN BY: SN / JMJ
CHECKED BY: DGR
September 2022
Sheet 11 of 35