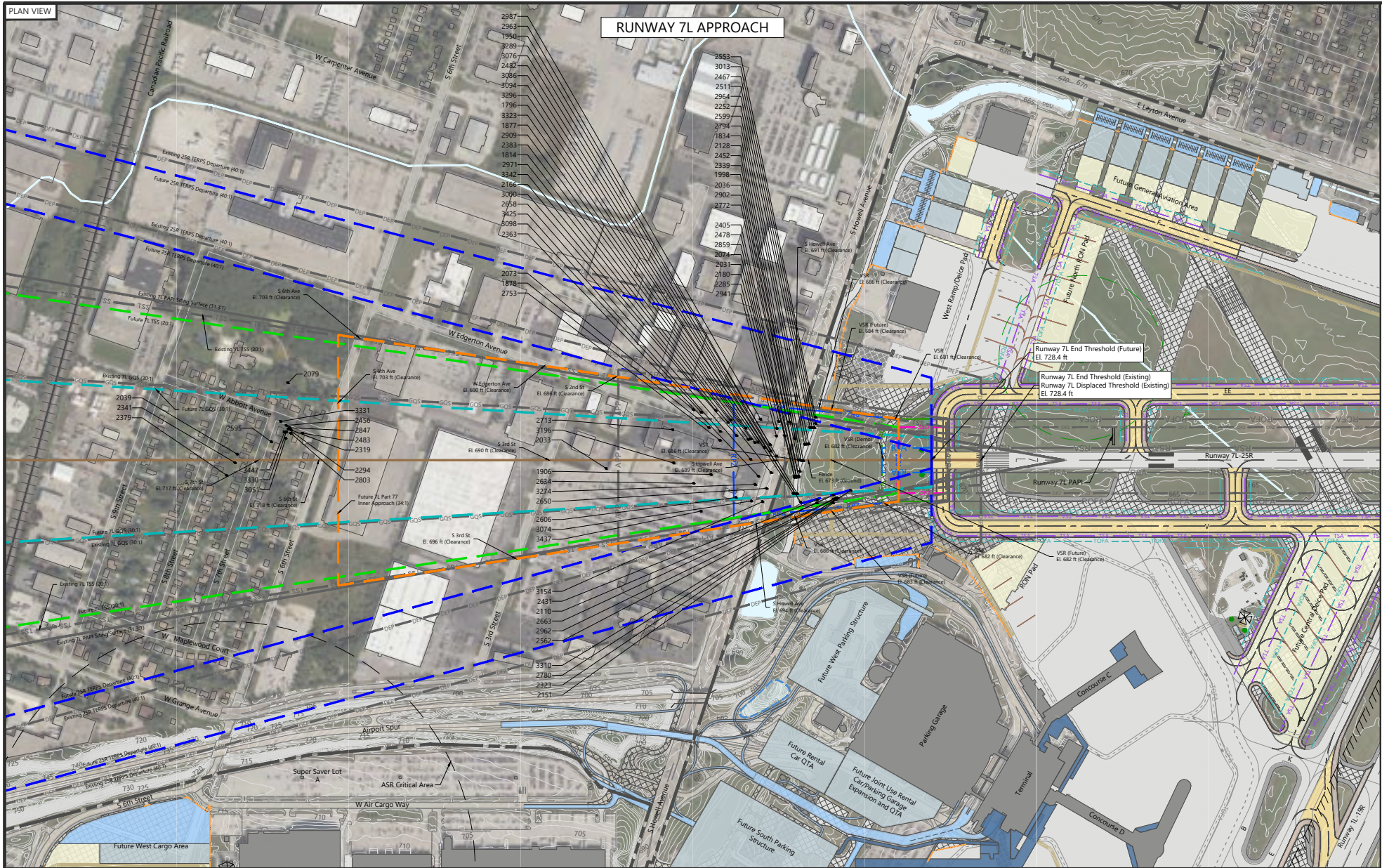




LEGEND			
EXISTING AIRPORT FACILITIES		FUTURE AIRPORT FACILITIES	
	Airport Property Line		Windcone
	Apron/Runway/Taxiway Pavement		Threshold Lights
	Shoulder Pavement		ASR
	Avigation Easement		REIL
	On-Airport Buildings		RTR
	Off-Airport Buildings		PAPI
	Vehicle Service Road (VSR)		Apron/Non-Movement Area Pavement
	Landside Roadways		Runway/Taxiway Pavement
	Air Operations Area (AOA) Fence ³		Shoulder Pavement
	Topographical Contours		Buildings/Parking Structure
	Water Features		Terminal
	Extended Runway Centerline		Landside Roadways/Surface Parking
	Composite Ground Profile		Facility/Pavement Demolition
	Roadway and Railway Clearance ¹		Water Features
	Vehicle Service Road Clearance ¹		Taxiway/Taxilane Centerline
	Runway Protection Zone (RPZ)		Air Operations Area (AOA) Fence ³
	Runway Safety Area (RSA)		Windcone
	Runway Object Free Area (ROFA)		Navigational Aid ⁷
	Runway Obstacle Free Zone (ROFZ)		
	Taxiway Safety Area (TSA)		
	Taxiway Object Free Area (TOFA)		
	Part 77 Approach Surface		
	TERPS Departure Surface		
	PAPI Siting Surface		
	Threshold Siting Surface (TSS) ²		
	Glidepath Qualification Surface (GQS) ²		
	ASR/AWOS Critical Area		

NOTES:

1/ Roadway and railway elevations depicted in the plan and profile views contain the Part 77 clearances above ground level (AGL) (Service/Private Roads: 10 feet; Roadways: 15 feet; Interstates: 17 feet; Railways: 23 feet). All other object elevations shown in the plan and profile views (streams, localizers, fence, etc.) are the actual ground elevations at those points.

2/ No changes to Runway 7's Threshold Siting Surface and Glidepath Qualification Surface. Therefore, these future surfaces will be the same as the existing surfaces.

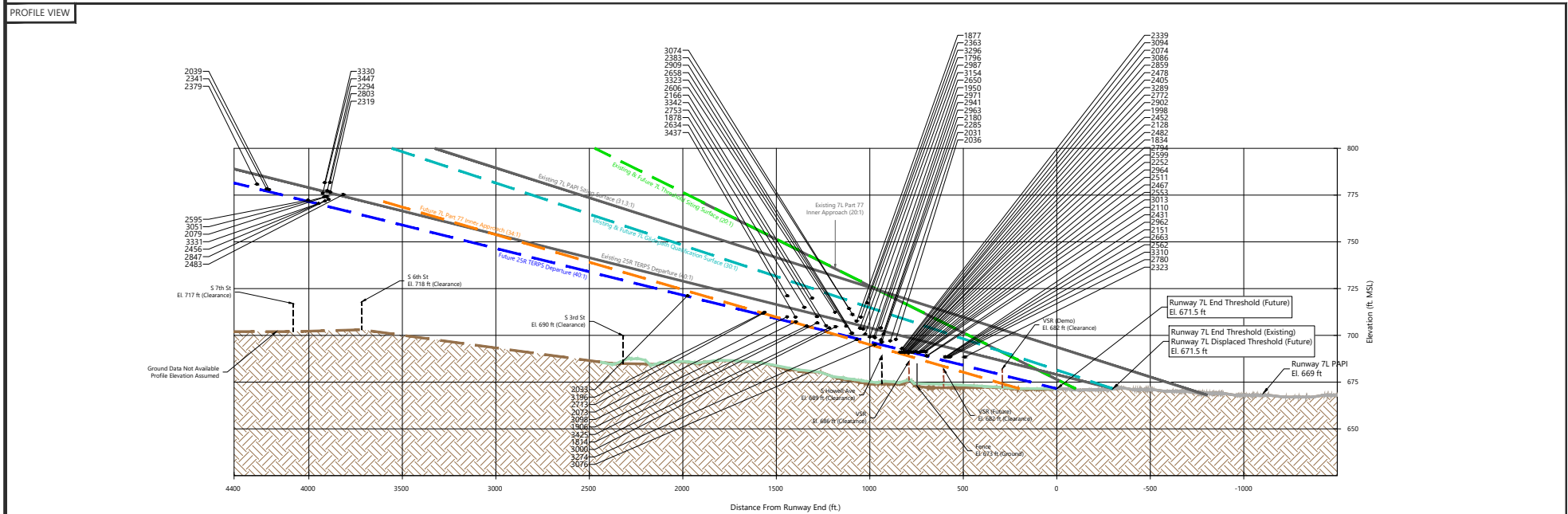
3/ Fence heights shown for Existing AOA Fence where available. Future AOA Fence heights to be determined.

4/ Runway 7L Obstruction Table is shown on Sheet 25.

5/ Elevations are in feet above Mean Sea Level (MSL).

6/ Runway Centerline Profile shown on Sheet 8.

7/ For future navigational aid details, refer to the Future ALP Sheet (Sheet 4).



SOURCES:

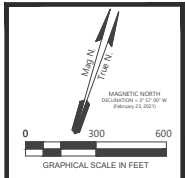
MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration, Advisory Circular 150/5300 13A Airport Design, February 2014; Federal Aviation Administration, Engineering Brief No. 99A, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010; Milwaukee County, December 2021 (property line); Martiner Geospatial, March 2019 (obstruction data); Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:

Ricondo & Associates, Inc.



INNER APPROACH SHEET
RUNWAY 7L



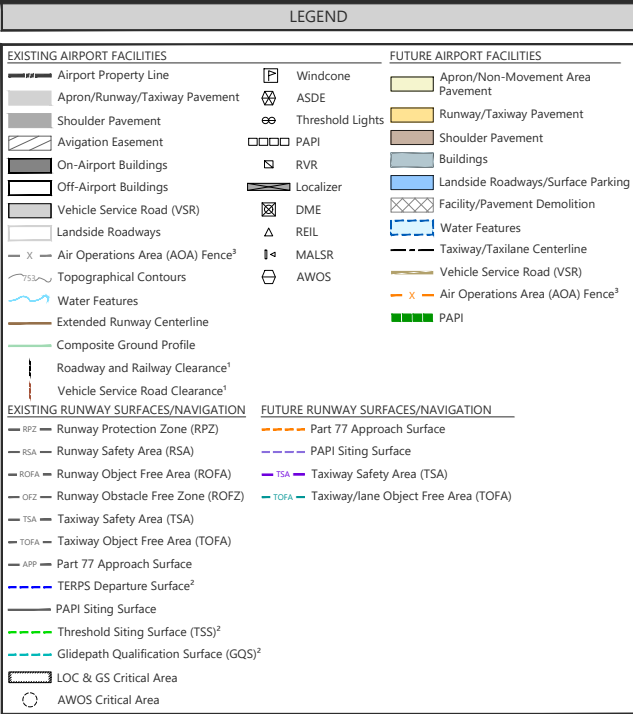
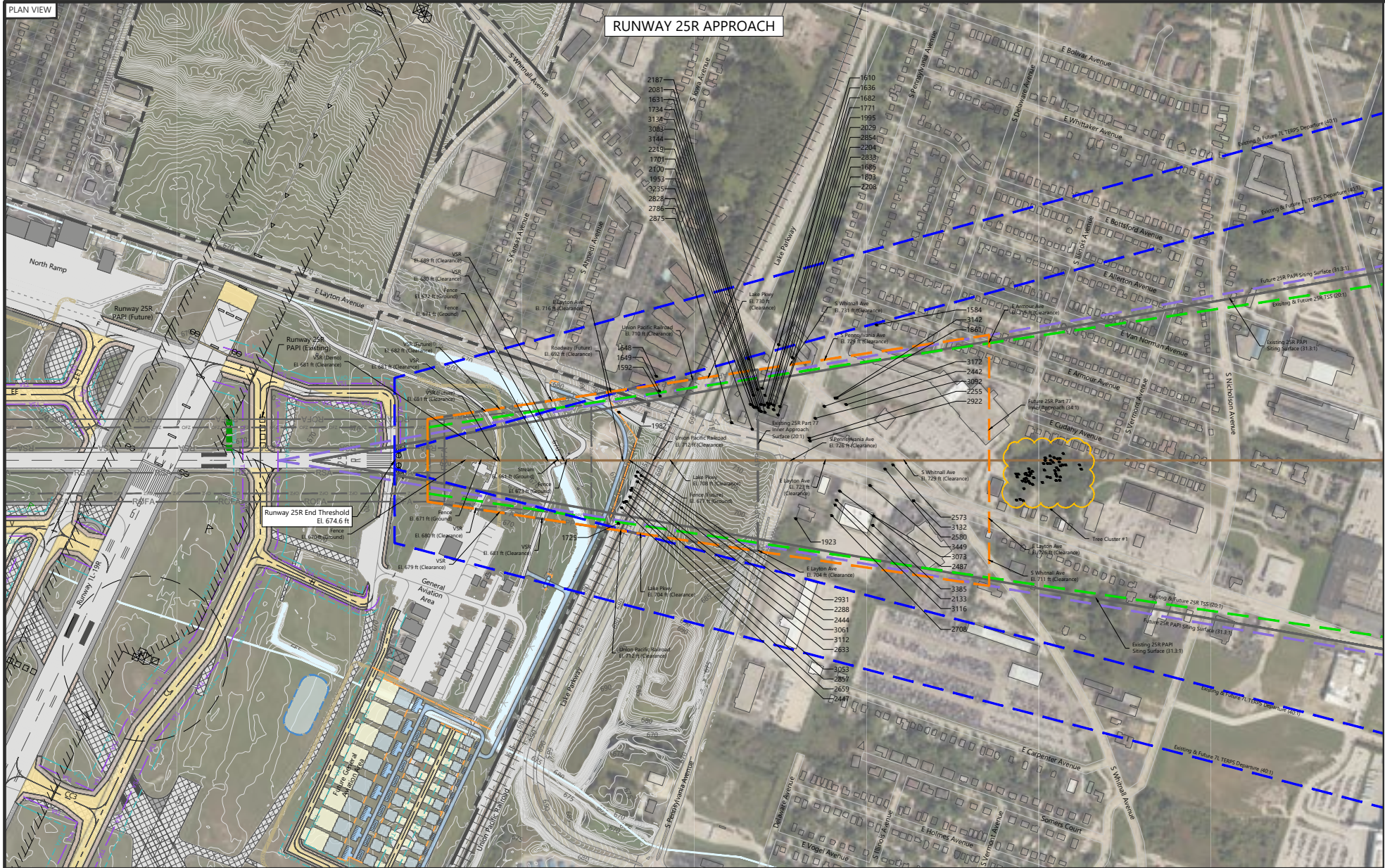
No.	Revisions	Date

DRAWN BY: SN

CHECKED BY: MDT

September 2022

Sheet 21 of 35



NOTES:

1/ Roadway and railway elevations depicted in the plan and profile views contain the Part 77 clearances above ground level (AGL) (Service/Private Roads: 10 feet; Roadways: 15 feet; Interstates: 17 feet; Railways: 23 feet). All other object elevations shown in the plan and profile views (streams, localizers, fence, etc.) are the actual ground elevations at those points.

2/ No changes to Runway 25R's Threshold Siting Surface and Glidepath Qualification Surface and no changes to Runway 7L TERPS Departure Surface. Therefore, these future surfaces will be the same as the existing surfaces.

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

4/ Runway 25R Obstruction Table is shown on Sheet 26.

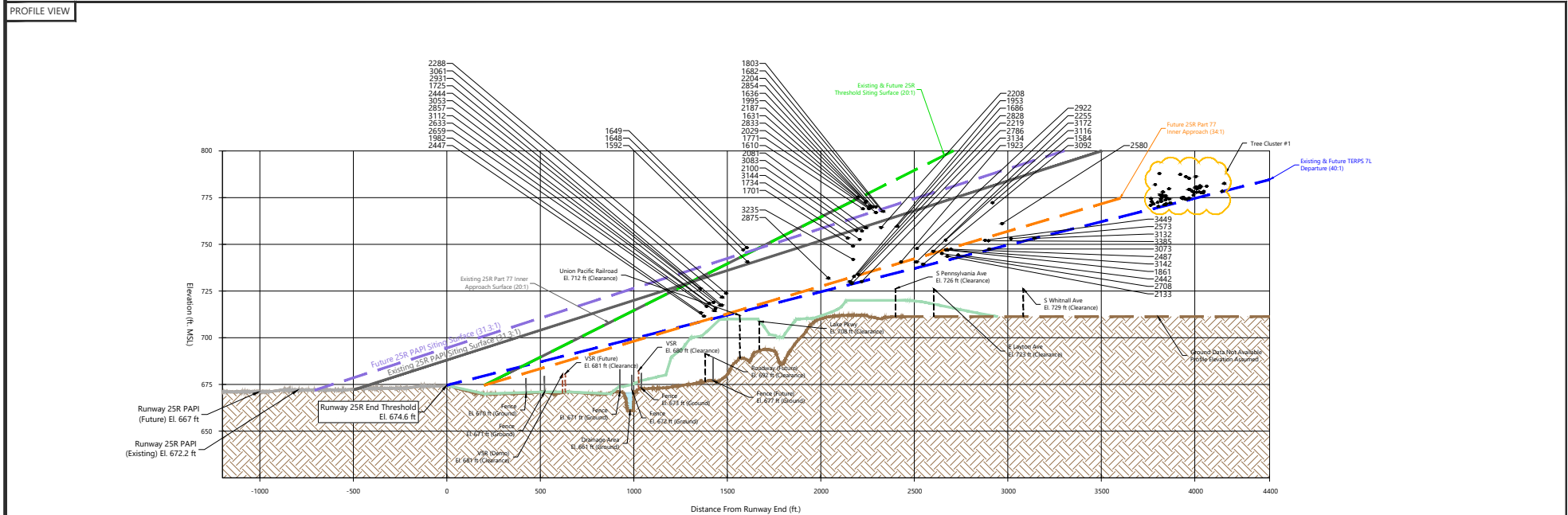
5/ Tree clusters were used to group trees that are in close proximity to each other. Each tree cluster contains approximately 50 points. Individual point labels were replaced with one group label that lists all points within that tree cluster.

6/ Elevations are in feet above Mean Sea Level (MSL).

7/ Runway Centerline Profile shown on Sheet 8.

TREE CLUSTER:

Points within Tree Cluster #1:
1780, 1781, 1806, 1825, 1840, 1922, 1956, 1958, 1963, 1983, 1991, 2018, 2101, 2104, 2122, 2135, 2167, 2264, 2276, 2290, 2299, 2375, 2393, 2488, 2534, 2545, 2574, 2607, 2614, 2641, 2697, 2765, 2791, 2819, 2836, 2862, 2863, 2873, 2932, 3019, 3050, 3059, 3176, 3206, 3232, 3233, 3250, 3301, 3388, 3403, 3411, 3422, 3450



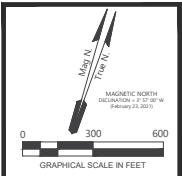
SOURCES:

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; Federal Aviation Administration, Engineering Brief No. 99A, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010; Milwaukee County, December 2021 (property line); Martiner Geospatial, March 2019 (obstruction data); Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:
Ricondo & Associates, Inc.

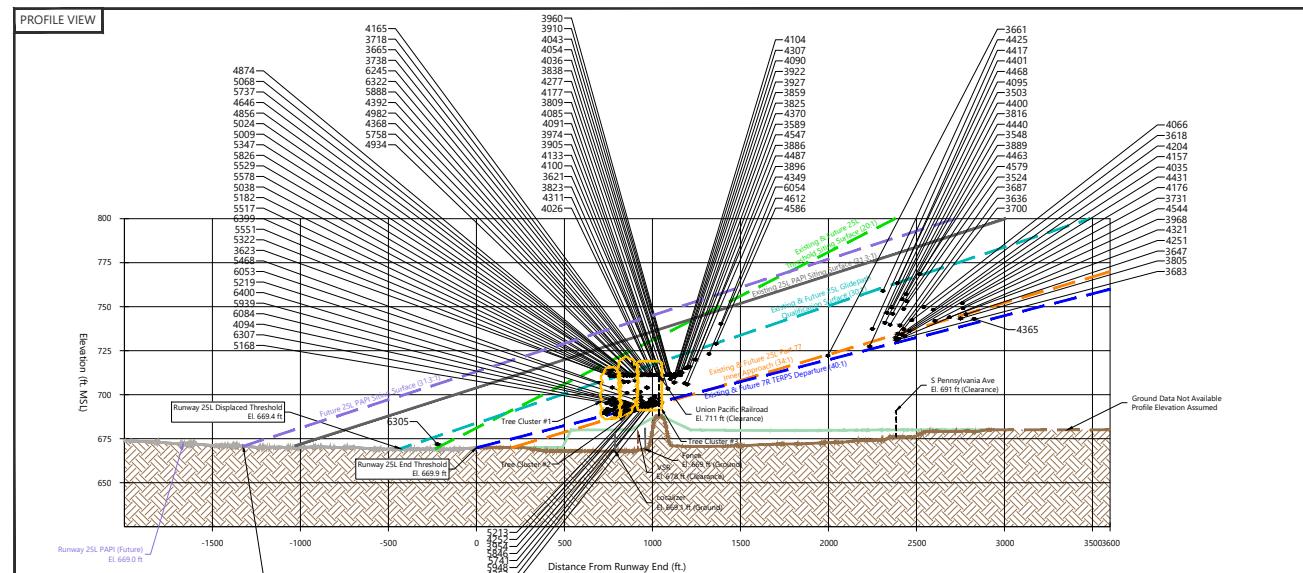
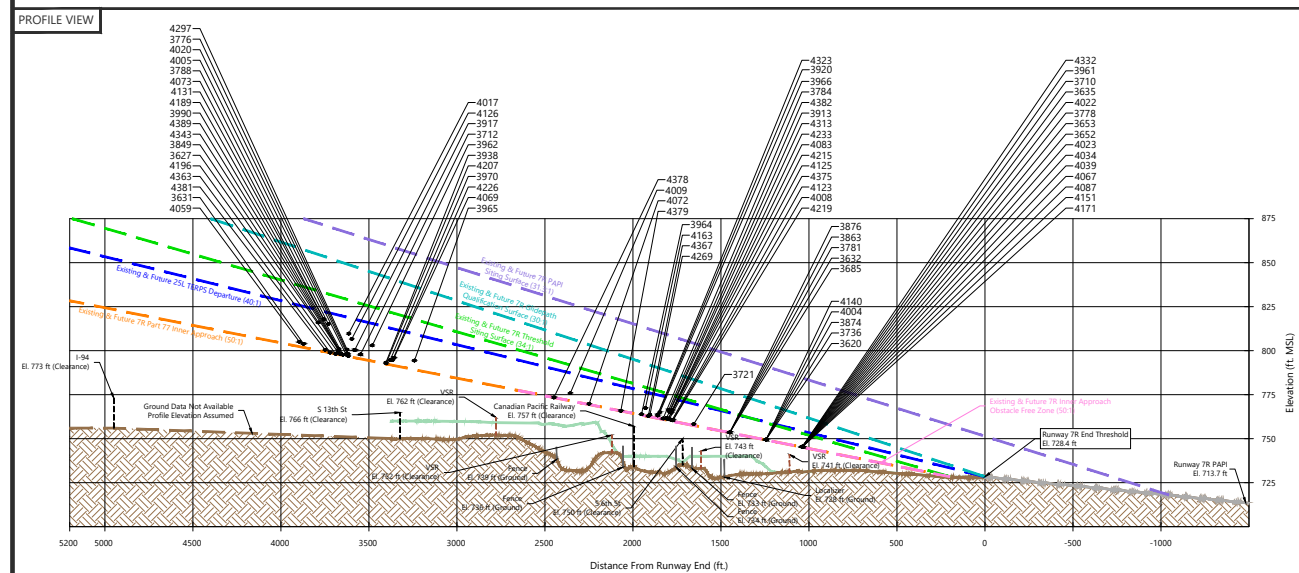
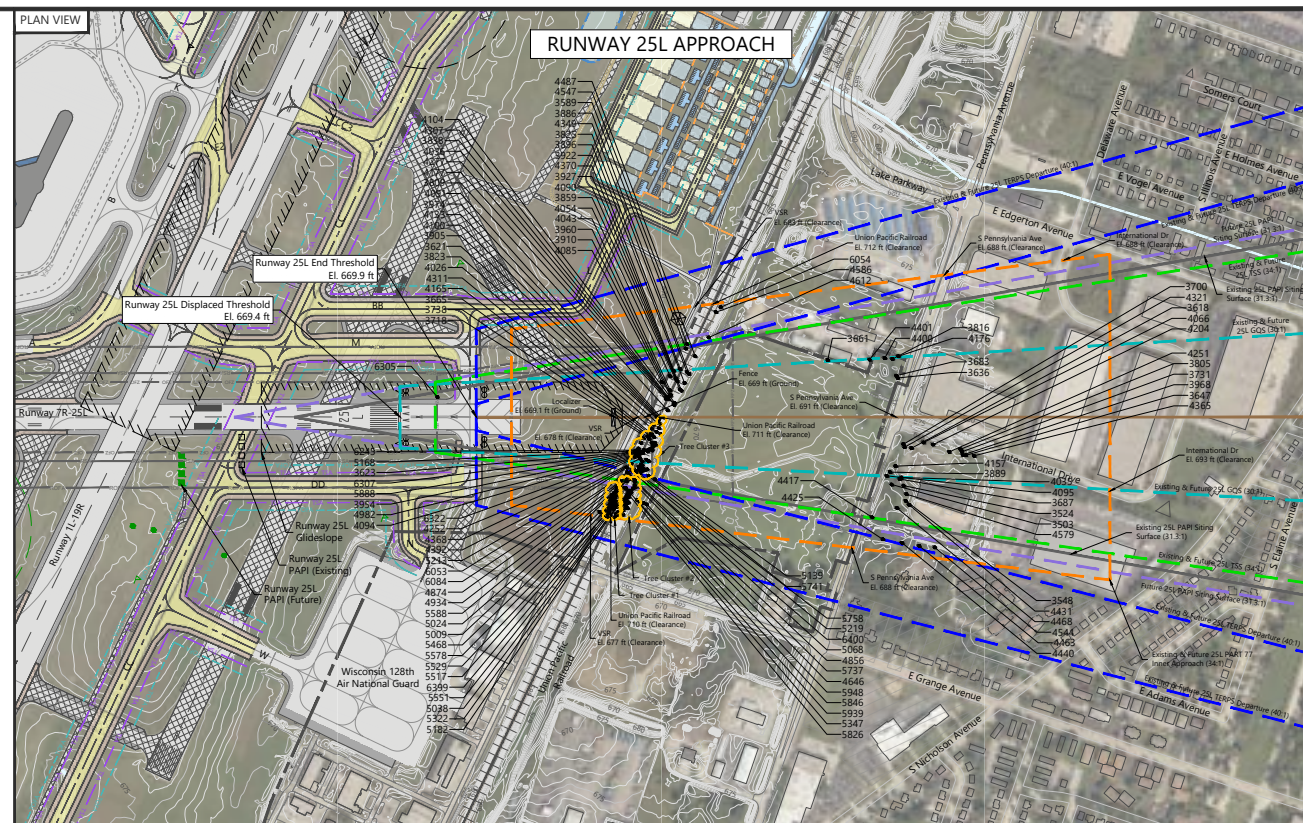
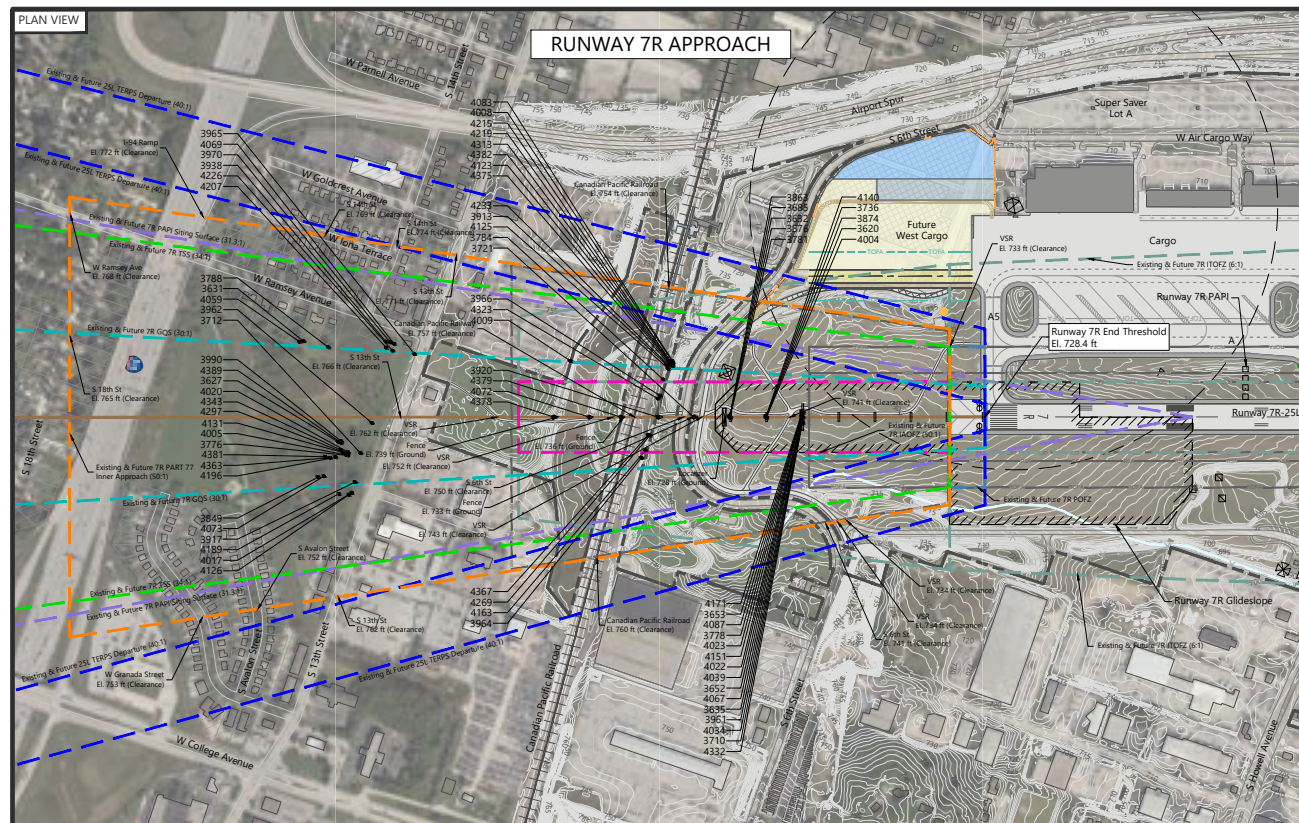


INNER APPROACH SHEET
RUNWAY 25R (VEGETATION OBSTRUCTIONS)



No.	Revisions	Date

DRAWN BY: SN
CHECKED BY: MDT
September 2022
Sheet 23 of 35



LEGEND			
EXISTING AIRPORT FACILITIES		FUTURE AIRPORT FACILITIES	
Airport Property Line	Windcone	Apron/Non-Movement Area Pavement	Runway Protection Zone (RPZ)
Apron/Runway/Taxiway Pavement	ASDE	Runway/Taxiway Pavement	Runway Safety Area (RSA)
Shoulder Pavement	Threshold Lights	Shoulder Pavement	Runway Object Free Area (ROFA)
Avigation Easement	PAPI	Buildings	Runway Obstacle Free Zone (ROFZ)
On-Airport Buildings	RVR	Landside Roadways/Surface Parking	Part 77 Approach Surface
Off-Airport Buildings	Localizer	Facility/Pavement Demolition	TERPS Departure Surface
Vehicle Service Road (VSR)	ASR	Water Features	Threshold Siting Surface (TSS)
Landside Roadways	DME	Taxiway/Taxilane Centerline	Glidepath Qualification Surface (GQS)
Air Operations Area (AOA) Fence ³	REIL	Vehicle Service Road (VSR)	Precision Obstacle Free Zone (POFZ)
Topographical Contours	RTR	Air Operations Area (AOA) Fence ³	Inner Approach OFZ (IAOFZ)
Water Features	MALSR	Windcone	Inner Transitional OFZ (ITOFZ)
Extended Runway Centerline	Vehicle Service Road Clearance ¹	PAPI	Future PAPI Siting Surface ⁷
Composite Ground Profile	Navigational Aid ⁹	Tank	Existing PAPI Siting Surface
Roadway and Railway Clearance ¹			LOC & GS Critical Area
			Taxiway Safety Area (TSA)
			Taxiway Object Free Area (TOFA)
			ASR/AWOS Critical Area

NOTES:

- 1/ Roadway and railway elevations depicted in the plan and profile views contain the Part 77 clearances above ground level (AGL) (Service/Private Roads: 10 feet; Roadways: 15 feet; Railways: 23 feet). All other object elevations shown in the plan and profile views (streams, localizers, fence, etc.) are the actual ground elevations at those points.
- 2/ No changes to Runway 7R-25L therefore all future surfaces will be the same as the existing surfaces with the exception of Runway 25L PAPI (requires relocation).
- 3/ Fence heights shown for Existing AOA Fence where available. Future AOA Fence heights to be determined.
- 4/ Runway 7R Obstruction Table is shown on Sheet 25. Runway 25L Obstruction Table is shown on Sheet 27.
- 5/ Tree clusters were used to group trees that are in close proximity to each other. Each tree cluster contains approximately 50 points. Individual point labels were replaced with one group label that lists all points within that tree cluster.
- 6/ Elevations are in feet above Mean Sea Level (MSL).
- 7/ Runway 7R PAPI Surface does not change in future, however, it is depicted as purple to match the other surfaces that remain the same in existing and future conditions (see note 2).
- 8/ Runway Centerline Profile shown on Sheet 9.
- 9/ For future navigational aid details, refer to the Future ALP Sheet (Sheet 4).

TREE CLUSTERS:

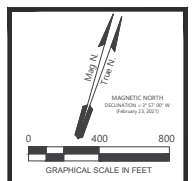
Points within Tree Cluster #1:
4757, 4769, 4808, 4811, 4843,
5220, 5303, 5391, 5426, 5513,
5858, 5914, 5938, 5950, 6018,
6407, 6408, 6430

Points within Tree Cluster #2:
4639, 4647, 4665, 4721, 4751,
5063, 5087, 5109, 5257, 5329,
5768, 5771, 5944, 6063, 6094,

Points within Tree Cluster #3:
3608, 3609, 3633, 3650, 3733,
4253, 4258, 4336, 4362, 4387,
5474, 5511, 5603, 5749, 5751,

SOURCES:
 MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base line); Federal Aviation Administration, *Advisory Circular 150/5300 13A Airport Design*, February 2014; Federal Aviation Administration, *Engineering Brief No. 994*, July 2020; Code of Federal Regulations, *Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace*, July 2010; Milwaukee County, December 2021 (property line); Martinez Geospatial, March 2019 (obstruction data); Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:
 Ricondo & Associates, Inc.

[illegible]

RUNWAY 1R OBSTRUCTION TABLE									
Obstruction Number	Obstruction Type	Northing (N)	Eastng (E)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Existing TERPS Departure Surface/O3 Penetration (ft)	Proposed Disposition	
758	GL ANTENNA	347737.051	2513074.837	691.6	748.2	24.6	24.6	FIXED BY FUNCTION	
1196	TREETOP	347524.943	2513031.096	638.4	761.3	7.9	7.9	TRIM	
1201	TREETOP	347551.781	2513050.192	691.0	746.8	6.7	6.7	TRIM	
1515	TREETOP	347260.260	2513331.503	678.1	765.7	5.5	5.5	TRIM	

RUNWAY 19L OBSTRUCTION TABLE									
Obstruction Number	Obstruction Type	Northing (N)	Eastng (E)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Existing TERPS Departure Surface/O3 Penetration (ft)	Proposed Disposition	
294	TREETOP	357756.561	2534205.338	715.3	766.7	23.3	23.3	TRIM	
517	TREETOP	357756.252	2534156.753	711.4	796.1	22.5	22.5	TRIM	
687	TREETOP	357747.544	2534137.855	710.9	796.9	23.6	23.6	TRIM	
715	TREETOP	357759.667	2534132.296	716.8	795.5	20.9	20.9	TRIM	
796	TREETOP	357963.000	2534110.140	718.9	797.3	21.8	21.8	TRIM	
1051	TREETOP	357772.034	2534155.000	714.1	796.4	22.4	22.4	TRIM	
1219	TREETOP	358005.193	2533861.441	729.6	779.6	0.6	0.6	TRIM	
1222	TREETOP	357924.044	2533940.762	722.8	780.4	3.2	3.2	TRIM	
1234	TREETOP	357735.344	2534093.321	714.9	776.9	4.0	4.0	TRIM	
1237	TREETOP	358005.044	2534130.376	725.1	792.5	12.8	12.8	TRIM	
1238	TREETOP	357875.195	2534116.111	720.9	792.8	16.4	16.4	TRIM	
1243	TREETOP	357861.522	2534095.478	720.1	785.5	9.9	9.9	TRIM	
1271	TREETOP	357771.605	2533812.652	724.7	781.6	9.0	9.0	TRIM	
1289	TREETOP	357937.368	2534061.264	724.6	791.3	6.4	6.4	TRIM	
1295	TREETOP	357761.897	2533938.272	724.5	784.9	6.5	6.5	TRIM	
1314	TREETOP	358015.861	2534082.258	726.2	797.2	15.1	15.1	TRIM	
1317	TREETOP	357897.025	2534011.955	721.6	785.6	9.1	9.1	TRIM	
1318	TREETOP	357741.798	2534058.438	715.3	778.3	5.4	5.4	TRIM	
1341	TREETOP	357735.784	2534054.106	716.6	782.6	9.8	9.8	TRIM	
1343	TREETOP	357962.506	2534110.804	716.2	783.1	9.0	9.0	TRIM	
1355	TREETOP	357882.085	2534141.185	724.6	796.4	19.7	19.7	TRIM	
1356	TREETOP	357771.617	2534021.903	716.4	789.4	15.8	15.8	TRIM	
1359	TREETOP	357971.624	2534091.002	718.1	792.7	5.9	5.9	TRIM	
1362	TREETOP	357767.987	2533849.093	714.9	789.2	12.6	12.6	TRIM	
1370	TREETOP	357824.137	2533861.367	712.7	785.5	14.0	14.0	TRIM	
1413	TREETOP	357889.152	2534065.580	722.2	785.4	6.6	6.6	TRIM	
1414	TREETOP	357752.654	2534082.714	715.2	782.0	8.8	8.8	TRIM	
1440	TREETOP	358026.964	2534027.152	726.6	799.5	1.7	1.7	TRIM	
1444	TREETOP	357769.342	2534044.951	715.5	780.3	16.2	16.2	TRIM	
1451	TREETOP	357746.238	2534034.193	715.3	789.2	16.1	16.1	TRIM	
1454	TREETOP	358002.991	2533865.062	726.5	781.3	0.1	0.1	TRIM	
1457	TREETOP	357914.469	2534025.714	722.8	790.0	12.8	12.8	TRIM	
1461	TREETOP	357916.109	2534027.195	721.9	789.4	12.3	12.3	TRIM	
1465	TREETOP	358035.098	2534078.985	726.8	790.5	9.7	9.7	TRIM	
1467	TREETOP	358038.001	2534082.264	726.7	789.2	9.1	9.1	TRIM	
1506	TREETOP	357969.112	2534138.124	723.6	795.5	16.7	16.7	TRIM	
1511	TREETOP	358117.870	2534102.733	727.5	795.1	1.7	1.7	TRIM	
1531	TREETOP	357761.788	2534081.861	715.8	784.4	11.1	11.1	TRIM	
1559	TREETOP	357730.342	2533935.849	715.0	777.9	6.0	6.0	TRIM	
1566	TREETOP	357976.076	2533935.106	724.9	785.8	7.2	7.2	TRIM	
1567	TREETOP	358099.783	2533895.171	726.0	789.7	8.2	8.2	TRIM	
1569	TREETOP	357988.844	2533977.197	723.2	786.4	12.0	12.0	TRIM	
1572	TREETOP	357916.285	2534010.137	715.6	789.9	16.5	16.5	TRIM	
1576	TREETOP	357960.849	2534116.629	724.6	794.3	15.7	15.7	TRIM	
1599	TREETOP	357411.442	2534556.051	713.6	768.5	2.5	2.5	TRIM	
1626	TREETOP	357261.914	2534456.968	704.2	768.2	6.2	6.2	TRIM	
1638	TREETOP	357902.497	2534454.567	715.2	777.8	6.4	6.4	TRIM	
1650	TREETOP	357315.437	2534461.941	699.1	764.0	5.1	5.1	TRIM	
1674	TREETOP	358266.749	2534636.001	719.3	796.1	8.6	8.6	TRIM	
1680	TREETOP	358020.666	2534936.206	714.7	785.6	3.5	3.5	TRIM	
1698	TREETOP	358211.880	2534877.818	716.9	790.7	3.5	3.5	TRIM	
1711	TREETOP	358026.996	2534994.199	716.8	794.9	7.6	7.6	TRIM	
1756	TREETOP	357761.677	2534373.550	715.3	782.6	9.5	9.5	TRIM	
1748	TREETOP	357978.112	2534499.141	711.0	769.9	1.1	1.1	TRIM	
1749	TREETOP	357979.112	2534491.096	710.7	781.8	1.2	1.2	TRIM	
1752	TREETOP	358215.323	2534522.948	722.5	794.4	8.5	8.5	TRIM	
2011	TREETOP	357916.101	2534381.871	707.3	775.3	12.7	12.7	TRIM	
2643	TREETOP	357176.303	2534316.645	702.3	765.5	6.0	6.0	TRIM	
2905	TREETOP	357698.971	2534266.461	714.1	795.3	22.8	22.8	TRIM	
3427	TREETOP	357127.892	2534446.698	698.1	762.0	8.8	8.8	TRIM	

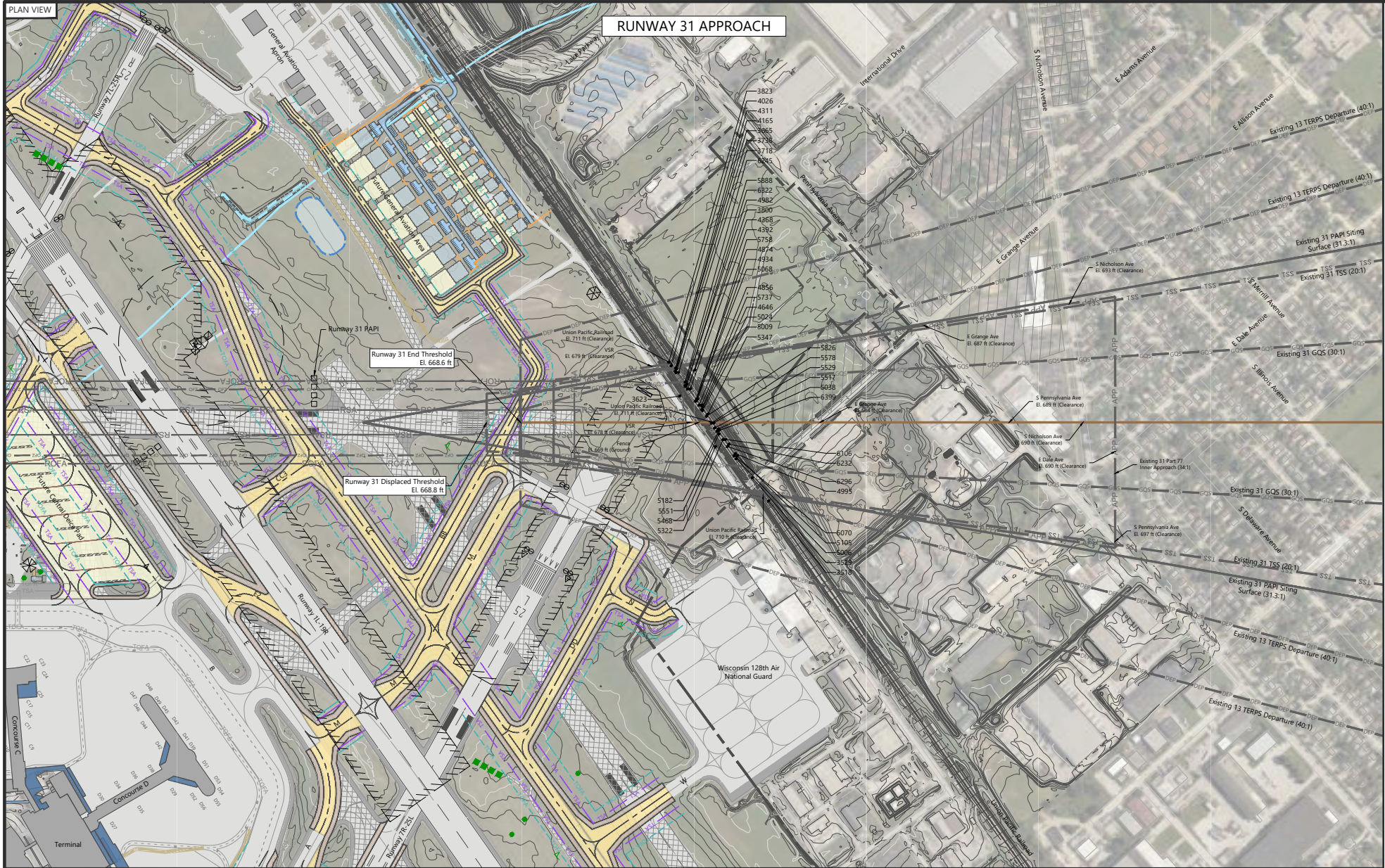
RUNWAY 7L OBSTRUCTION TABLE												
Obstruction Number	Obstruction Type	Northing (N)	Eastng (E)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Future 7L Part 77 Inner Approach Surface Penetration (ft)	Existing & Future 7L Sidepath Obstruction Surface Penetration (ft)	Existing 25R TERPS Departure Surface/O3 Penetration (ft)	Future 25R TERPS Departure Surface/O3 Penetration (ft)	Proposed Disposition	
1780	UTILITY POLE	353915.889	2527958.270	673.7	752.9	7.3	7.3	-	-	6.1	MARK/LIGHT	
1814	TREETOP	354017.289	2527751.974	676.3	764.9	2.8	2.8	-	-	2.1	TRIM	
1834	ROAD	353933.100	2528213.031	675.2	691.1	2.6	2.6	-	-	0.1	MARK/LIGHT	
1877	TREETOP	353927.031	2527900.610	679.7	707.6	10.5	10.5	-	-	1.8	TRIM	
1878	TREETOP	353918.752	2527606.290	674.9	715.0	9.7	9.7	-	-	2.2	TRIM	
1950	LIGHT POLE	353946.937	2527991.067	678.8	699.3	4.9	4.9	-	-	3.3	MARK/LIGHT	
1998	ROAD	353856.678	2528012.685	675.1	686.9	1.8	1.8	-	-	1.8	MARK/LIGHT	
2021	LIGHT POLE	354027.035	2528076.849	673.7	697.1	5.3	5.3	-	-	3.3	MARK/LIGHT	
2033	UTILITY POLE	353474.500	2527102.832	676.7	721.2	0.3	-	-	-	0.3	MARK/LIGHT	
2036	LIGHT POLE	354115.668	2528056.754	674.2	697.9	7.0	7.0	-	-	4.9	MARK/LIGHT	
2059	TREETOP	352797.453	2524967.567	708.8	778.0	1.2	-	-	-	1.2	TRIM	
2071	TREETOP	353986.704	2527462.797	674.6	700.9	2.3	1.8	-	-	2.3	TRIM	
2075	ROAD	353931.155	2528196.150	675.1	680.9	0.8	0.8	-	-	2.3	MARK/LIGHT	
2079	TREETOP	353306.583	2525111.176	702.6	774.2	5.1	-	-	-	5.1	TRIM	
2110	ROAD	353739.117	2528377.570	673.8	689.1	3.0	3.0	-	-	-	MARK/LIGHT	
2128	ROAD	353919.113	2528305.712	675.3	691.3	2.4	2.4	-	-	-	MARK/LIGHT	
2151	ROAD	353714.691	2528471.117	671.8	686.4	5.2	5.2	-	-	-	TRIM	
2165	UTILITY POLE	354029.907	2527911.023	676.0	710.9	15.8	15.8	-	-	8.2	MARK/LIGHT	
2180	IGN	354046.703	2527993.636	674.2	700.7	7.8	7.8	-	-	6.0	MARK/LIGHT	
2252	ROAD	354029.649	2528210.738	675.1	691.0	3.5	3.5	-	-	0.9	MARK/LIGHT	
2265	LIGHT POLE	354016.199	2527991.060	675.6	699.3	3.1	3.1	-	-	3.4	MARK/LIGHT	
2280	TREETOP	353915.110	2528100.000	712.6	771.3	6.7	6.7	-	-	8.2	TRIM	
2319	TREETOP	353905.677	2528226.147	711.8	776.6	8.0	-	-	-	0.5	TRIM	
2323	ANTENNA	353905.285	2528041.435	674.1	686.5	6.4	6.4	-	-	3.7	MARK/LIGHT	
2339	UTILITY POLE	354013.040	2528121.140	673.2	695.0	3.0	3.0	-	-	0.8	MARK/LIGHT	
2341	TREETOP	353915.220	2527991.060	708.8	778.3	1.1	-	-	-	1.1	TRIM	
2342	IGN	353915.656	2527991.061	675.2	700.8	13.1	-	-	-	4.6	MARK/LIGHT	
2370	TREETOP	352655.032	2524990.219	708.1	780.9	2.5	-	-	-	2.5	TRIM	
2381	TREETOP	353911.691	2527891.769	674.1	714.3	16.0	16.0	-	-	7.5	MARK/LIGHT	
2405	ROAD	353819.827	2528107.107	675.5	691.2	1.5	1.5	-	-	-	MARK/LIGHT	
2411	ROAD	353784.691	2528107.106	675.6	689.9	1.6	1.6	-	-	-	MARK/LIGHT	
2412	ROAD	353819.862	2528108.602	675.4	689.9	1.7	1.7	-	-	-	MARK/LIGHT	
2456	TREETOP	353902.518	2525183.184	712.7	771.8	2.4	-	-	-	2.4	TRIM	
2467	ROAD	354134.509	2528308.638	673.3	691.3	4.8	4.8	-	-	2.0	MARK/LIGHT	
2478	ROAD	353819.598	2528308.389	675.6	691.2	1.5	1.5	-	-	-	MARK/LIGHT	
2480	ROAD	353808.606	2528308.389	675.6	691.2	1.6	1.6	-	-	-	MARK/LIGHT	
2483	TREETOP	353911.689	2525197.997	709.7	775.3	8.6	-	-	-	8.9	TRIM	
2511	ROAD	354126.693	2528108.466	675.4	691.3	4.4	4.4	-	-	1.7	MARK/LIGHT	
2553	ROAD	354159.549	2528191.102	675.6	691.5	5.2	5.2	-	-	-	MARK/LIGHT	
2562	ROAD	353778.807	2528475.081	673.0	686.6	5.8	5.8	-	-	-	MARK/LIGHT	
2569	TREETOP	353911.691	2528108.136	675.6	712.1	1.6	-	-	-	0.9	MARK/LIGHT	
2589	ROAD	354024.165	2528198.576	675.3	691.3	3.4	3.4	-	-	0.7	MARK/LIGHT	
2600	ANTENNA	353746.805	2527904.627	677.7	712.4	11.9	11.9	-	-	3.7	MARK/LIGHT	
2634	LIGHT POLE	353968.452	2527633.113	678.8	721.2	13.6	13.2	-	-	1.6	MARK/LIGHT	
2635	ROAD	353778.718	2528475.081	673.0	686.6	4.2	4.2	-	-	2.7	MARK/LIGHT	
2639	LIGHT POLE	353915.343	2528198.752	675.3	712.3	3.3	3.3	-	-	2.3	MARK/LIGHT	
2663	ROAD	353787.587	2528454.977	673.9	688.1	5.1	5.1	-	-	0.7	MARK/LIGHT	
2713	BUILDING	353816.043	2527464.040	675.5	710.8	1.0	-	-	-	1.0	MARK/LIGHT	
2731	FLARELIGHT	353868.273	2527696.736	675.1	720.0	6.7	6.7	-	-	6.4	MARK/LIGHT	
2732	ROAD	354126.693	2528108.466	675.7	691.3	1.8	1.8	-	-	1.8	MARK/LIGHT	
2780	ROAD	353786.500	2528198.667	675.0	688.6	6.2	6.2	-	-	6.2	TRIM	
2794	ROAD	354018.098	2528186.994	675.3	690.9	2.6	2.6	-	-	1.1	MARK/LIGHT	
2803	TREETOP	353926.846	2525213.136	711.8	761.8	13.1	-	-	-	5.6	MARK/LIGHT	
2847	TREETOP	353911.691	2528108.136	712.0	771.7	3.8	-	-	-	3.8	TRIM	
2859	ROAD	353854.974	2528198.576	675.2	689.9	0.8	0.8	-	-	-	MARK/LIGHT	
2902	ROAD	353825.243	2528123.122	675.7	692.1	1.8	1.8	-	-	1.8	MARK/LIGHT	
2939	LIGHT POLE	353940.372	2527870.082	674.2	701.4	3.4	3.4	-	-	2.3	MARK/LIGHT	
2945	UTILITY POLE	354009.293	2528008.571	675.4	704.0	10.7	10.7	-	-	10.8	MARK/LIGHT	
2963	ROAD	353911.691	2528108.136	675.6	715.5	1.5	1.5	-	-	1.5	MARK/LIGHT	
2963	LIGHT POLE	353894.239	2528051.000	674.0	697.7	4.4	4.4	-	-	2.7	MARK/LIGHT	
2964	ROAD	354121.712	2528304.403	675.5	690.9	3.6	3.6	-	-	1.0	MARK/LIGHT	
2971	LIGHT POLE	353787.891	2528054.590	675.1	698.6	4.6	4.6	-	-	3.0	MARK/LIGHT	
2987	ANTENNA	354027.242	2527684.763	676.3	705.5	7.4	7.4	-	-	6.5	MARK/LIGHT	
3001	TREETOP	353911.691	2528108.136	675.9	704.6	4.2	4.2	-	-	4.2	MARK/LIGHT	
3013	ROAD	354018.098	2528198.667	675.3	692.1	4.9	4.9	-	-	2.1	MARK/LIGHT	
3051	TREETOP	352987.522	2525121.679	711.4	770.4	4.5	-	-	-	4.5	TRIM	
3074	IGN	353968.021	2528000.000	679.1	715.2	14.4	14.4	-	-	4.9	MARK/LIGHT	
3076	TREETOP	353911.691	2528108.136	675.7	691.0	1.7	1.7	-	-	1.7	MARK/LIGHT	
3086	ROAD	353786.500	2528198.576	675.7	691.2	1.2	1.2	-	-	-	MARK/LIGHT	
3094	ROAD	353714.760	2528224.011	675.5	691.1	0.8	0.8	-	-	-	MARK/LIGHT	
3099	TREETOP	353899.586	2527532.186	675.1	707.9	0.9	0.9	-	-	0.9	TRIM	
3134	LIGHT POLE	353905.355	2528005.281	675.4	700.7	4.9	4.9	-	-	3.6	MARK/LIGHT	
3146	ROAD	354018.098	2528198.667	675.3	712.4	1.8	1.8	-	-	1.8	MARK/LIGHT	
3274	TREETOP	353848.841	2527987.995	675.6	697.7	0.6	0.6	-	-	-	TRIM	
3289	ROAD	353721.412	2528246.542	675.8	690.8	1.2	1.2	-	-	-	MARK/LIGHT	
3296	TREETOP	353911.691	2527962.176	675.5	712.4	21.9	21.9	2.0	13.0	20.5	TRIM	
3310	ROAD	353779.052	2528107.106	675.9	688.5	5.6	5.6	-	-	-	MARK/LIGHT	
3312	LIGHT POLE	353905.355	2527584.470	674.9	704.9	5.1	5.1	-	-	4.1	MARK/LIGHT	
3330	ROAD	353904.720	2529021.807	712.9	767.7	12.3	-	-	-	4.8	MARK/LIGHT	
3331	TREETOP	353071.498	2525449.045	711.2	770.5	0.3	-	-	-	0.3	TRIM	
3342	UTILITY POLE	353966.629	2527705.138	675.6	705.2	3.3	3.3	-	-	2.8	MARK/LIGHT	
3426	ROAD	353911.691	2528108.136	675.9	702.7	4.4	4.4	-	-	3.4	MARK/LIGHT	
3427	LIGHT POLE	353425.483	2527713.706	676.8	700.6	4.4	4.4	-	-	3.4	MARK/LIGHT	
3447	TREETOP	353911.691	2525102.785	711.9	770.8	6.3	-	-	-	6.3	TRIM	

RUNWAY 25R OBSTRUCTION TABLE

Obstruction Number	Obstruction Type	Northing (N)	Easting (E)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Existing 25R Part 77 Inner Approach Surface Penetration (ft) (1)	Future 25R Part 77 Inner Approach Surface Penetration (ft) (2)	Existing & Future 25R Threshold Siting (ft) (3)	Existing & Future 25R Departure Surface (ft) (4)	Existing & Future 25R Part 77 Inner Siting Surface Penetration (ft) (5)	Proposed Disposition
1354	TREETOP	357076.336	253060.386	711.0	722.3	24.7	-	-	-	24.7	-	TRM
1352	TREETOP	356895.240	253133.500	711.1	740.7	25.9	-	-	-	24.7	-	TRM
1351	UTILITY POLE	357076.336	253060.386	711.0	722.3	24.7	-	-	-	24.7	-	MARK/LIGHT
1350	TREETOP	357079.776	253068.380	705.7	769.0	38.7	-	-	-	8.7	-	TRM
1353	TREETOP	357083.820	253060.804	710.0	775.3	45.8	3.0	-	0.8	45.8	35.9	TRM
1356	TREETOP	357084.682	253176.700	719.7	773.0	42.3	-	-	-	42.3	32.4	TRM
1359	LIGHT POLE	356779.742	253089.335	709.4	730.1	23.7	-	-	-	23.7	-	MARK/LIGHT
1348	TREETOP	356825.248	253051.178	705.3	747.1	39.3	-	-	-	34.1	-	TRM
1349	TREETOP	356835.399	253058.336	703.5	748.2	33.5	9.4	-	-	32.3	-	TRM
1362	TREETOP	357382.355	253089.232	721.0	768.1	25.9	-	-	-	25.9	-	TRM
1366	TREETOP	357326.136	253179.328	719.7	759.7	24.9	-	-	-	24.9	-	TRM
1705	TREETOP	357025.534	253069.235	716.4	749.0	20.1	-	-	-	20.1	-	TRM
1712	TREETOP	356554.607	253243.136	685.1	726.3	17.8	-	-	-	17.8	-	TRM
1754	TREETOP	357233.055	253048.232	713.1	763.3	25.1	-	-	-	25.1	-	TRM
1747	UTILITY POLE	357333.057	253038.821	716.8	762.0	25.6	-	-	-	25.6	-	MARK/LIGHT
1768	ROAD	356731.445	253245.297	689.5	735.1	18.1	-	-	-	18.1	-	MARK/LIGHT
1775	TREETOP	357005.036	253145.177	718.9	760.1	38.1	-	-	-	38.1	8.2	TRM
1779	ROAD	356731.507	253253.178	689.6	734.8	17.6	-	-	-	17.6	-	MARK/LIGHT
1780	TREETOP	357159.211	253161.642	708.5	768.2	12.8	-	-	-	12.8	-	TRM
1781	TREETOP	357263.483	253144.034	703.8	774.7	1.6	-	-	-	1.6	-	TRM
1781	TRAFFIC LIGHT	356731.802	253043.130	710.3	742.3	8.9	-	-	-	8.9	-	MARK/LIGHT
1793	ROAD	356734.975	253074.732	689.0	733.9	16.7	-	-	-	16.7	-	MARK/LIGHT
1801	TREETOP	357015.075	253254.093	692.4	767.7	14.8	-	-	-	14.8	4.5	TRM
1804	UTILITY POLE	356519.685	253480.531	689.1	702.8	0.1	-	-	-	0.1	-	TRM
1806	TREETOP	357258.950	253154.050	705.4	777.5	1.8	-	-	-	1.8	-	TRM
1821	LIGHT POLE	356889.573	253072.222	710.9	741.8	16.0	-	-	-	16.0	-	MARK/LIGHT
1825	TREETOP	357280.234	253124.732	704.1	761.3	8.0	-	-	-	8.0	-	TRM
1827	RAILROAD	356525.326	253253.111	688.4	712.8	0.3	-	-	-	0.3	-	MARK/LIGHT
1835	ROAD	356762.688	253039.400	688.9	733.8	17.7	-	-	-	17.7	-	MARK/LIGHT
1840	TREETOP	357160.051	253199.621	707.1	779.7	8.5	-	-	-	8.5	-	TRM
1849	ROAD	356893.539	253049.829	712.8	727.8	5.7	-	-	-	5.7	-	MARK/LIGHT
1851	LIGHT POLE	356915.149	253091.380	711.7	740.8	2.8	-	-	-	2.8	-	MARK/LIGHT
1863	TREETOP	357178.038	253138.871	716.8	746.9	5.3	-	-	-	5.3	-	TRM
1868	ROAD	356785.038	253048.686	714.8	729.5	6.5	-	-	-	6.5	-	MARK/LIGHT
1882	TRAFFIC LIGHT	356739.878	253238.969	689.5	734.2	17.3	-	-	-	17.3	-	MARK/LIGHT
1883	UTILITY POLE	356705.341	253025.767	711.4	743.3	17.6	-	-	-	17.6	-	MARK/LIGHT
1890	TRAFFIC LIGHT	356734.887	253231.480	689.4	734.3	14.5	-	-	-	14.5	-	MARK/LIGHT
1897	ROAD	356721.743	253077.236	711.2	726.7	2.0	-	-	-	2.0	-	MARK/LIGHT
1898	UTILITY POLE	356895.340	253038.021	712.0	753.6	11.0	-	-	-	11.0	-	MARK/LIGHT
1900	ROAD	356890.035	253271.391	689.7	734.5	17.3	-	-	-	17.3	-	MARK/LIGHT
1911	UTILITY POLE	356895.374	253044.956	689.8	738.2	16.9	-	-	-	16.9	-	MARK/LIGHT
1914	TRAFFIC LIGHT	356745.039	253242.136	689.8	734.2	12.8	-	-	-	12.8	-	MARK/LIGHT
1920	LIGHT POLE	357074.085	253167.727	716.2	746.3	4.6	-	-	-	4.6	-	MARK/LIGHT
1922	TREETOP	356976.303	253183.639	712.9	762.0	12.7	-	-	-	12.7	-	TRM
1923	TREETOP	356405.154	253044.299	704.1	740.6	5.3	-	-	-	5.3	-	TRM
1937	TRAFFIC LIGHT	356878.795	253261.295	689.0	734.2	16.3	-	-	-	16.3	-	MARK/LIGHT
1951	TREETOP	356914.606	253249.295	714.8	731.8	3.7	-	-	-	3.7	-	TRM
1956	TREETOP	357074.895	253147.958	704.0	779.3	5.4	-	-	-	5.4	-	TRM
1958	TREETOP	357253.943	253149.675	704.4	776.4	4.1	-	-	-	4.1	-	TRM
1963	TREETOP	357149.483	253180.421	707.2	776.0	5.3	-	-	-	5.3	-	TRM
1965	UTILITY POLE	356822.237	253091.752	719.8	742.4	18.1	-	-	-	18.1	-	MARK/LIGHT
1982	TREETOP	356925.567	253053.028	693.3	713.3	4.6	-	-	-	4.6	-	TRM
1983	TREETOP	357097.113	253193.021	711.2	771.2	0.6	-	-	-	0.6	-	TRM
1991	TREETOP	357086.448	253177.620	711.4	773.0	2.9	-	-	-	2.9	-	TRM
1995	TREETOP	356971.422	253075.721	718.0	775.6	39.4	-	-	-	39.4	9.5	TRM
1999	TREETOP	356893.028	253049.480	712.7	707.7	1.8	-	-	-	1.8	-	TRM
2007	UTILITY POLE	356895.817	253068.534	712.3	765.3	6.7	-	-	-	6.7	-	MARK/LIGHT
2018	TREETOP	357084.943	253153.401	705.1	760.4	5.7	-	-	-	5.7	-	TRM
2019	ROAD	356751.258	253147.205	710.5	738.2	8.0	-	-	-	8.0	-	MARK/LIGHT
2025	UTILITY POLE	356885.485	253074.897	713.1	757.9	4.5	-	-	-	4.5	-	MARK/LIGHT
2026	TREETOP	356874.471	253176.125	716.8	769.3	18.1	-	-	-	18.1	8.4	TRM
2030	ROAD	356871.881	253049.897	689.8	728.5	16.5	-	-	-	16.5	-	MARK/LIGHT
2037	UTILITY POLE	356447.830	253083.799	679.9	712.0	1.2	-	-	-	1.2	-	MARK/LIGHT
2041	UTILITY POLE	356855.907	253044.368	711.1	759.4	24.9	-	-	-	24.9	-	MARK/LIGHT
2055	UTILITY POLE	356465.402	253021.802	709.5	747.2	8.7	-	-	-	8.7	-	MARK/LIGHT
2067	ROAD	356744.789	253048.146	708.1	738.0	4.4	-	-	-	4.4	-	MARK/LIGHT
2068	ROAD	356894.677	253149.330	716.4	758.9	28.2	-	-	-	28.2	-	TRM
2088	ROAD	356730.858	253045.499	710.1	730.8	8.7	-	-	-	8.7	-	MARK/LIGHT
2089	LIGHT POLE	356618.642	253340.897	682.9	734.6	16.4	-	-	-	16.4	-	MARK/LIGHT
2100	TREETOP	356929.908	253089.073	714.5	757.4	28.0	-	-	-	28.0	-	TRM
2101	TREETOP	357121.891	253123.193	718.1	778.3	1.3	-	-	-	1.3	-	TRM
2104	TREETOP	357127.451	253144.713	716.1	772.2	0.9	-	-	-	0.9	-	TRM
2118	UTILITY POLE	356838.005	253171.704	710.6	749.3	19.5	-	-	-	19.5	-	MARK/LIGHT
2122	TREETOP	357144.892	253189.871	708.2	774.7	1.8	-	-	-	1.8	-	TRM
2131	ROAD	356779.709	253051.954	711.7	769.4	1.7	-	-	-	1.7	-	MARK/LIGHT
2135	TREETOP	356925.824	253039.191	709.1	743.6	1.1	-	-	-	1.1	-	TRM
2135	TREETOP	357041.112	253182.242	711.7	787.9	18.0	-	-	-	18.0	-	TRM
2138	ROAD	356794.323	253051.609	711.5	726.1	1.4	-	-	-	1.4	-	MARK/LIGHT
2141	ROAD	356785.895	253023.182	689.9	734.9	17.6	-	-	-	17.6	-	MARK/LIGHT
2158	LIGHT POLE	356783.685	253071.472	710.4	749.5	11.7	-	-	-	11.7	-	MARK/LIGHT
2163	UTILITY POLE	356943.456	253059.164	713.2	754.4	20.8	-	-	-	20.8	-	MARK/LIGHT
2165	SIGN	357081.736	253060.700	716.2	744.8	5.8	-	-	-	5.8	-	FIXED BY FUNCTION
2167	TREETOP	357087.482	253140.301	711.4	771.7	0.9	-	-	-	0.9	-	TRM
2168	ROAD	356877.771	253045.309	713.3	728.0	4.4	-	-	-	4.4	-	MARK/LIGHT
2171	TRAFFIC LIGHT	356881.146	253089.896	715.8	739.7	8.1	-	-	-	8.1	-	MARK/LIGHT
2179	TRAFFIC LIGHT	356739.871	253235.960	691.0	734.6	16.6	-	-	-	16.6	-	MARK/LIGHT
2186	ROAD	356746.167	253030.102	694.7	734.1	14.6	-	-	-	14.6	-	MARK/LIGHT
2187	TREETOP	356893.499	253171.098	711.9	772.6	42.0	-	-	-	42.0	12.3	TRM
2204	TREETOP	357097.232	253184.213	719.9	770.0	38.0	-	-	-	38.0	8.0	TRM
2208	TREETOP	356897.693	253058.789	717.8	768.8	17.2	-	-	-	17.2	-	TRM
2219	TREETOP	356957.836	253070.074	714.7	733.9	4.3	-	-	-	4.3	-	TRM
2220	UTILITY POLE	356885.878	253061.528	711.0	738.9	13.9	-	-	-	13.9	-	MARK/LIGHT
2225	TREETOP	356893.079	253051.871	712.0	740.5	3.1	-	-	-	3.1	-	TRM
2263	LIGHT POLE	356939.362	253038.750	692.2	739.8	14.7	-	-	-	14.7	-	MARK/LIGHT
2264	TREETOP	357206.201	253180.491	712.8	776.3	1.6	-	-	-	1.6	-	TRM
2272	UTILITY POLE	356976.136	253094.138	712.9	762.4	27.0	-	-	-	27.0	-	MARK/LIGHT
2276	TREETOP	357125.606	253192.141	711.6	771.7	2.6	-	-	-	2.6	-	TRM
2279	ROAD	356739.051	253164.205	689.8	734.4	14.6	-	-	-	14.6	-	MARK/LIGHT
2283	ROAD	356734.934	253245.344	689.9	734.5	17.3	-	-	-	17.3	-	MARK/LIGHT
2288	UTILITY POLE	356778.776	253044.101	710.2	747.2	1.6	-	-	-	1.6	-	MARK/LIGHT
2289	TREETOP	356734.222	253175.445	688.8	723.8	11.8	-	-	-	11.8	-	TRM
2290	TREETOP	357240.607	253148.036	704.8	779.4	5.5	-	-	-	5.5	-	TRM
2290	TREETOP	357081.479	253128.029	711.6	772.5	2.8	-	-	-	2.8	-	TRM
2310	ROAD	356735.094	253041.799	710.8	739.5	8.4	-	-	-	8.4	-	MARK/LIGHT
2345	ROAD	356745.075	2530									

RUNWAY 25L OBSTRUCTION TABLE

Obstruction Number	Obstruction Type	Northing (N)	Easting (E)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Existing & Future 25L Part 77 Inner Approach Surface Threshold Sling OCS (TSS) Penetration (ft)	Existing & Future 25L Part 77 Inner Approach Surface Threshold Sling OCS (TSS) Penetration (ft)	Existing & Future 70 TSS Part 77 Inner Approach Surface Threshold Sling OCS (TSS) Penetration (ft)	Proposed Disposition
3243	TREETOP	32474.225	2536276.058	672.5	746.9	20.7	25.2	-	20.7	THM
3244	TREETOP	32481.200	2536245.007	673.3	746.7	18.1	13.3	-	18.1	THM
3248	TREETOP	32483.653	2536286.872	673.2	757.2	26.3	21.4	-	26.3	THM
3249	TREETOP	32485.448	2536283.578	684.0	715.0	16.0	16.0	-	15.2	THM
3249	TREETOP	32477.780	2536283.387	685.1	687.9	3.0	3.0	-	3.0	THM
3249	TREETOP	32325.323	2536817.447	682.1	682.9	0.6	0.6	-	-	THM
3249	TREETOP	32376.435	2536216.153	679.3	742.3	10.6	5.6	-	10.6	THM
3251	RAILROAD	32353.640	2536807.800	687.0	711.6	17.4	17.4	-	16.0	MARCAUGHT
3252	OL	32319.310	2536708.718	682.2	707.4	18.0	18.0	-	16.0	FIXED BY FUNCTION
3253	TREETOP	32326.186	2536821.057	684.5	684.5	0.4	0.4	-	15.0	THM
3258	TREETOP	32355.699	2536006.025	674.5	724.7	5.0	0.3	-	5.0	THM
3247	TREETOP	32272.632	2536535.583	675.9	745.6	6.2	-	-	6.2	THM
3250	TREETOP	32276.574	2536834.726	682.5	684.8	1.1	1.1	-	-	THM
3255	TREETOP	32358.262	2535998.482	675.0	722.2	2.4	-	-	2.4	THM
3255	RAILROAD	32273.090	2536705.425	677.0	711.0	16.0	16.2	-	16.0	MARCAUGHT
3263	TREETOP	32385.248	2535994.589	674.4	731.1	1.6	-	-	1.6	THM
3267	TREETOP	32319.052	2536212.220	673.4	739.3	9.3	4.6	-	9.3	THM
3262	TREETOP	32273.557	2536364.813	675.1	737.2	6.7	1.8	-	6.7	THM
3278	RAILROAD	32251.008	2536779.206	687.1	711.8	18.8	18.8	-	17.0	MARCAUGHT
3273	TREETOP	32376.237	2536493.530	678.9	762.0	13.1	6.8	-	13.1	THM
3273	TREETOP	32339.172	2536205.137	680.2	687.2	4.2	4.2	-	2.6	THM
3278	RAILROAD	32261.129	2536784.420	687.3	711.0	18.3	18.3	-	16.8	MARCAUGHT
3240	TREETOP	32323.111	2536828.489	677.9	685.5	2.0	2.0	-	10.6	THM
3286	TREETOP	32237.547	2536831.762	687.7	686.1	1.6	1.6	-	1.6	THM
3285	TREETOP	32374.954	2536479.331	676.1	743.3	4.7	-	-	4.7	THM
3289	TREETOP	32440.028	2536480.130	681.7	703.5	7.5	-	-	7.5	THM
3284	TREETOP	32346.639	2535942.715	675.1	746.0	17.0	12.5	-	17.0	THM
3282	RAILROAD	32328.128	2536795.137	687.1	711.1	17.5	17.5	-	26.0	MARCAUGHT
3284	TREETOP	32217.760	2536822.126	681.3	681.3	0.5	0.5	-	0.5	THM
3285	RAILROAD	32384.696	2536877.949	687.1	711.0	12.9	12.9	-	12.1	MARCAUGHT
3288	RAILROAD	32311.976	2536810.149	687.1	711.1	15.2	15.2	-	14.1	MARCAUGHT
3285	TREETOP	32185.561	2536812.156	677.9	704.1	11.7	11.7	-	10.1	THM
3289	TREETOP	32375.438	2536853.415	679.7	713.0	15.0	15.0	-	14.2	THM
3286	TREETOP	32376.186	2536881.757	679.8	713.9	16.3	16.3	-	15.7	THM
3289	TREETOP	32357.629	2536147.341	675.1	739.8	11.2	6.7	-	11.2	THM
3286	TREETOP	32363.234	2536876.758	674.8	706.5	7.7	7.7	-	7.1	THM
3289	TREETOP	32310.300	2536836.160	672.4	684.8	2.0	2.0	-	0.4	THM
3293	TREETOP	32375.107	2536893.013	687.0	711.8	17.1	17.1	-	15.8	THM
3293	RAILROAD	32352.475	2536825.305	686.8	711.8	15.2	15.2	-	14.2	MARCAUGHT
3292	TREETOP	32362.632	2536797.466	680.9	706.9	9.9	9.9	-	8.9	THM
3297	RAILROAD	32364.844	2536854.636	686.7	711.5	13.9	13.9	-	13.1	MARCAUGHT
3247	TREETOP	32236.177	2536835.187	675.1	685.5	2.0	2.0	-	1.4	THM
3294	TREETOP	32375.245	2536775.128	687.7	682.2	5.4	-	-	5.4	THM
3295	RAILROAD	32350.201	2536825.020	686.8	711.8	15.1	15.1	-	14.1	MARCAUGHT
3298	TREETOP	32376.940	2536903.185	678.9	746.1	10.1	3.8	-	10.1	THM
3294	RAILROAD	32385.933	2536811.134	687.0	711.8	17.0	17.0	-	15.7	MARCAUGHT
4036	RAILROAD	32323.171	2536789.575	687.1	711.1	17.8	17.8	-	16.3	MARCAUGHT
4037	TREETOP	32330.726	2536812.762	679.7	724.2	1.9	1.9	-	1.9	THM
4036	RAILROAD	32350.231	2536822.884	687.3	711.7	15.6	15.6	-	14.5	MARCAUGHT
4043	RAILROAD	32351.598	2536814.232	687.1	711.0	14.6	14.6	-	13.6	MARCAUGHT
4054	TREETOP	32367.480	2536781.388	678.7	708.9	12.5	12.5	-	11.5	THM
4055	TREETOP	32329.650	2536829.440	677.2	687.6	4.4	4.4	-	2.9	THM
4056	TREETOP	32369.745	2536806.285	675.5	746.8	36.4	11.1	-	2.9	THM
4056	INDUSTRIAL SMOKESTACK	32369.745	2536806.285	714.0	684.7	36.4	-	-	36.4	THM
4056	OL	32369.149	2536796.335	670.5	708.8	10.6	10.6	-	10.6	FIXED BY FUNCTION
4056	RAILROAD	32362.126	2536821.872	687.3	711.0	13.7	13.7	-	12.8	MARCAUGHT
4052	RAILROAD	32370.335	2536811.791	687.0	711.8	16.9	16.9	-	15.6	MARCAUGHT
4052	TREETOP	32329.494	2536751.156	679.3	683.4	1.9	1.9	-	0.1	THM
4054	TREETOP	32378.757	2536751.704	683.4	683.6	1.1	3.1	-	1.2	THM
4052	TREETOP	32321.142	2536781.742	677.9	746.8	14.4	14.4	-	14.4	THM
4050	RAILROAD	32381.448	2536796.687	687.3	711.1	16.9	16.9	-	15.5	MARCAUGHT
4034	TREETOP	32348.204	2536861.803	679.7	711.8	14.7	14.7	-	13.8	THM
4133	RAILROAD	32386.147	2536791.132	687.4	711.1	16.8	16.8	-	15.5	MARCAUGHT
4157	TREETOP	32375.748	2536344.945	673.9	732.5	1.1	1.1	-	1.1	THM
4160	TREETOP	32323.871	2536820.851	674.6	685.9	2.0	2.0	-	0.6	THM
4160	TREETOP	32276.056	2536799.757	687.3	711.5	18.3	18.3	-	16.8	MARCAUGHT
4176	TREETOP	32317.089	2536960.069	674.9	731.8	2.0	-	-	2.0	THM
4177	RAILROAD	32407.471	2536806.655	687.1	711.1	15.4	15.4	-	14.3	MARCAUGHT
4249	TREETOP	32367.995	2536834.595	675.0	746.3	13.5	13.5	-	13.5	THM
4258	TREETOP	32355.442	2536820.122	685.5	685.5	0.8	0.8	-	0.8	THM
4251	TREETOP	32360.303	2536425.110	675.7	744.0	5.9	1.0	-	6.9	THM
4251	TREETOP	32310.000	2536750.686	683.0	689.9	0.5	0.5	-	-	THM
4252	TREETOP	32322.714	2536833.643	676.8	688.4	4.6	4.6	-	3.2	THM
4277	RAILROAD	32344.488	2536893.347	687.1	711.1	15.3	15.3	-	14.2	MARCAUGHT
4287	TREETOP	32346.153	2536864.312	674.6	733.1	13.0	13.0	-	13.1	THM
4311	RAILROAD	32382.676	2536800.444	687.4	711.5	18.2	18.2	-	16.7	MARCAUGHT
4321	TREETOP	32368.499	2536177.046	675.1	733.1	2.4	-	-	2.4	THM
4336	TREETOP	32324.141	2536750.084	680.7	684.2	2.5	2.5	-	0.8	THM
4346	TREETOP	32344.391	2536860.762	678.8	702.8	6.6	6.6	-	6.6	THM
4362	TREETOP	32324.541	2536844.040	673.6	685.6	1.3	1.3	-	-	THM
4362	TREETOP	32370.088	2536564.383	674.4	743.1	2.5	-	-	2.5	THM
4368	RAILROAD	32340.251	2536772.012	686.9	711.0	19.9	19.9	-	18.1	MARCAUGHT
4370	TREETOP	32327.997	2536875.540	673.9	712.6	14.2	14.2	-	13.5	THM
4387	TREETOP	32324.565	2536764.882	681.4	682.2	0.8	0.8	-	0.8	THM
4390	TREETOP	32329.723	2536847.026	673.7	708.7	13.9	13.9	-	12.7	THM
4392	RAILROAD	32319.463	2536784.895	687.1	711.5	20.1	20.1	-	18.4	MARCAUGHT
4400	TREETOP	32316.350	2535895.775	674.7	740.8	12.9	8.6	-	12.9	THM
4401	TREETOP	32309.345	2536830.683	673.8	727.4	1.7	1.7	-	1.7	THM
4417	TREETOP	32326.107	2536188.896	674.6	737.4	1.9	7.2	-	1.9	THM
4425	TREETOP	32364.305	2536237.676	672.9	708.0	10.4	27.1	-	10.4	THM
4431	TREETOP	32369.275	2536312.489	673.4	736.2	4.8	-	-	4.8	THM
4440	TREETOP	32342.640	2536347.147	673.4	734.2	23.9	19.1	-	23.9	THM
4461	TREETOP	32324.546	2536446.611	675.1	708.4	10.6	10.4	-	10.6	THM
4465	TREETOP	32324.546	2536254.987	671.0	703.4	29.1	18.7	-	18.7	THM
4467	TREETOP	32376.703	2536882.801	679.2	720.0	10.4	10.4	-	10.0	THM
4544	TREETOP	32320.980	2536350.087	676.3	741.9	6.9	1.3	-	6.9	THM
4547	TREETOP	32320.871	2536817.077	681.0	715.5	16.3	16.3	-	9.4	THM
4579	TREETOP	32345.186	2536777.821	672.1	701.1	22.1	-	-	22.1	THM
4580	TREETOP	32304.021	2536805.021	681.9	681.9	0.9	0.9	-	0.9	THM
4612	TREETOP	32309.125	2536919.687	673.9	723.2	20.3	20.3	-	11.9	THM
4619	TREETOP	32319.088	2536727.803	680.8	680.0	0.8	0.8	-	-	THM
4646	RAILROAD	32309.530	2536771.579	686.1	711.4	21.7	21.7	-	4.3	MARCAUGHT
4647	TREETOP	32314.301	2536788.112	680.3	680.3	0.2	4.0	-	-	THM
4650	TREETOP	32353.054	2536784.826	682.2	681.8	2.4	2.4	-	-	THM
4685	TREETOP	32392.210	2536803.007	681.6	686.7	5.2	5.2	-	3.4	THM
4721	TREETOP	32343.511	2536805.748	672.6	684.1	1.0	5.0	-	-	THM
4751	TREETOP	32347.771	2536808.445	673.3	681.0	1.5	1.5	-	-	THM
4751	TREETOP	32305.546	2536712.748	679.5	714.8	28.1	28.1	-	-	THM
4763	TREETOP	32305.205	2536810.257	679.5	684.5	2.3	2.3	-	0.5	THM
4769	TREETOP	32377.228	2536695.029	673.7	680.7	5.1	5.1	-	-	THM
4776	TREETOP	32361.741	2536725.512	680.2	689.5	1.4	1.4	-	-	THM
4777	TREETOP	32311.688	2536756.483	684.3	682.2	1.2	1.2	-	-	TH



LEGEND

EXISTING AIRPORT FACILITIES	FUTURE AIRPORT FACILITIES
— Airport Property Line	— Windcone
— Apron/Runway/Taxiway Pavement	— ASDE
— Shoulder Pavement	— Threshold Lights
— Avigation Easement	— PAPI
— On-Airport Buildings	— RVR
— Off-Airport Buildings	— Localizer
— Vehicle Service Road (VSR)	— AWOS
— Landside Roadways	— DME
— Topographical Contours	— REIL
— Water Features	— Vehicle Service Road Clearance ¹
— Extended Runway Centerline	— Future Airport Facilities
— Composite Ground Profile	— Apron/Non-Movement Area Pavement
— Roadway and Railway Clearance ¹	— Runway/Taxiway Pavement
	— Shoulder Pavement
	— Buildings
	— Terminal
	— Landside Roadways/Surface Parking
	— Facility/Pavement Demolition
	— Water Features
	— Taxiway/Taxilane Centerline
	— Vehicle Service Road (VSR)
	— Air Operations Area (AOA) Fence ²
	— Windcone
	— PAPI
	— Navigational Aid ⁶

EXISTING RUNWAY SURFACES/NAVIGATION

— RPZ	Runway Protection Zone (RPZ)
— RSA	Runway Safety Area (RSA)
— ROFA	Runway Object Free Area (ROFA)
— OFZ	Runway Obstacle Free Zone (ROFZ)
— 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)
— PAPI	PAPI Siting Surface
— LOC & GS Critical Area	
— AWOS Critical Area	

NOTES:

1/ Roadway and railway elevations depicted in the plan and profile views contain the Part 77 clearances above ground level (AGL) (Service/Private Roads: 10 feet; Roadways: 15 feet; Railways: 23 feet). All other object elevations shown in the plan and profile views (streams, localizers, fence, etc.) are the actual ground elevations at those points.

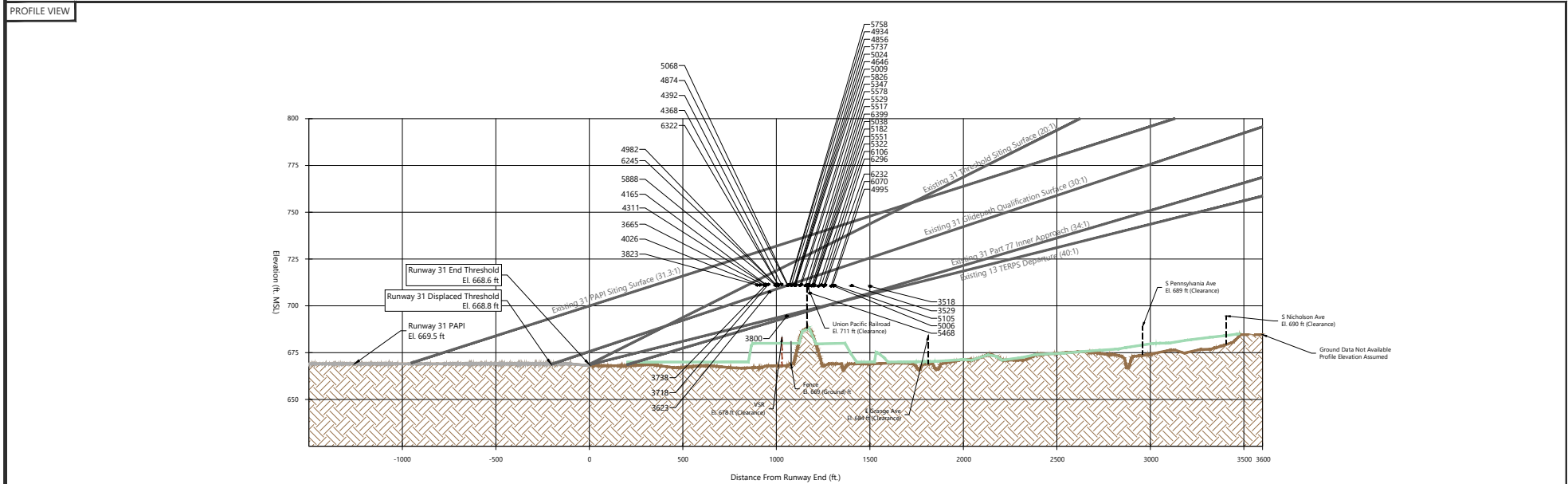
2/ Fence heights shown for Existing AOA Fence where available. Future AOA Fence heights to be determined.

3/ Runway 31 Obstruction Tables are shown on Sheet 32.

4/ Elevations are in feet above Mean Sea Level (MSL).

5/ Runway Centerline Profile shown on Sheet 8.

6/ For future navigational aid details, refer to the Future ALP Sheet (Sheet 4).



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; Federal Aviation Administration, Engineering Brief No. 99A, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010; Milwaukee County, December 2021 (property line); Martiner Geospatial, March 2019 (obstruction data); Ricondo & Associates, Inc. April 2021 (airspace assessment).

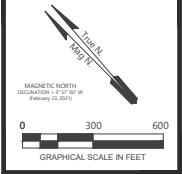
PREPARED BY:

Ricondo & Associates, Inc.



INNER APPROACH SHEET

RUNWAY 31 (MAN MADE OBSTRUCTIONS)



No.	Revisions	Date

DRAWN BY: SN

CHECKED BY: MDT

September 2022

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