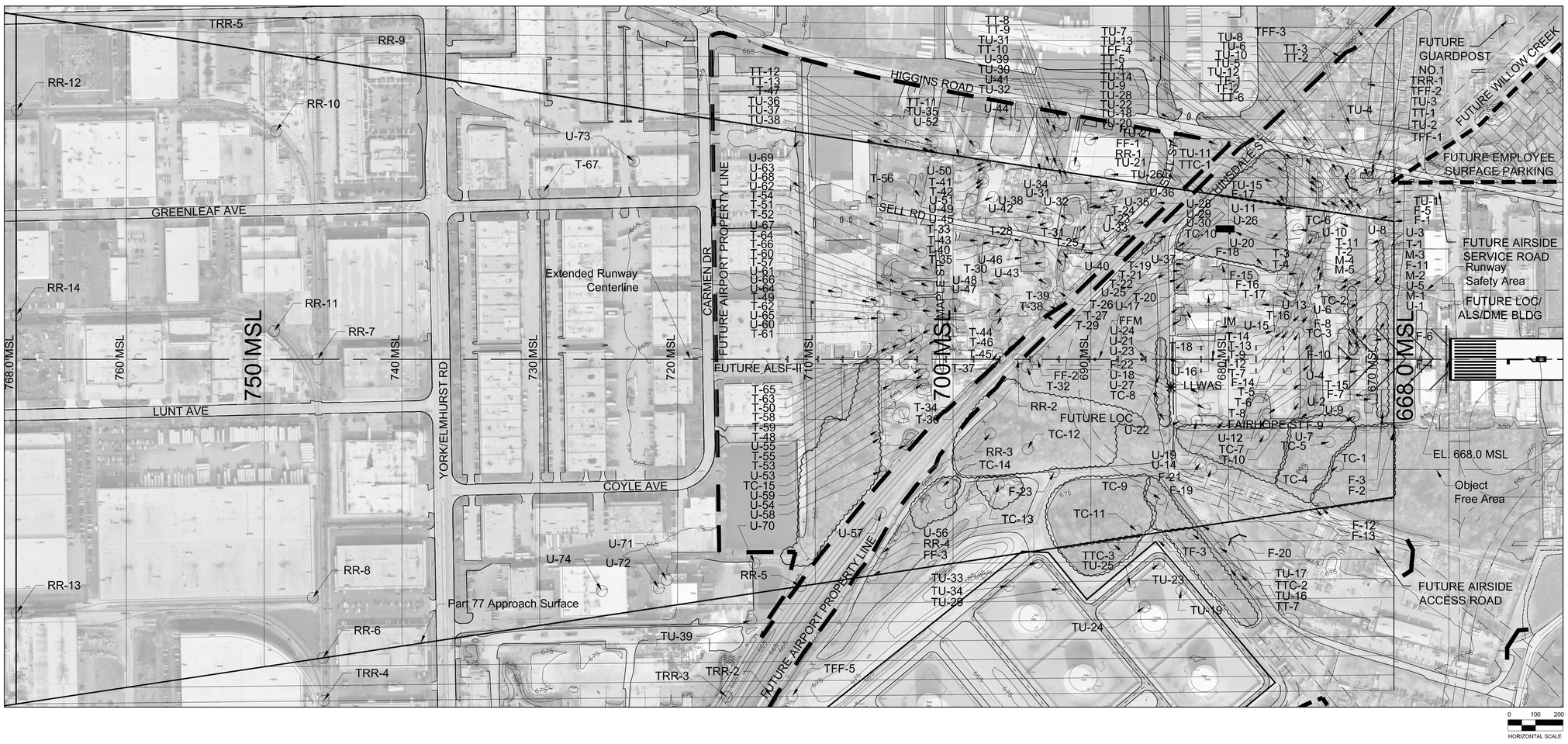
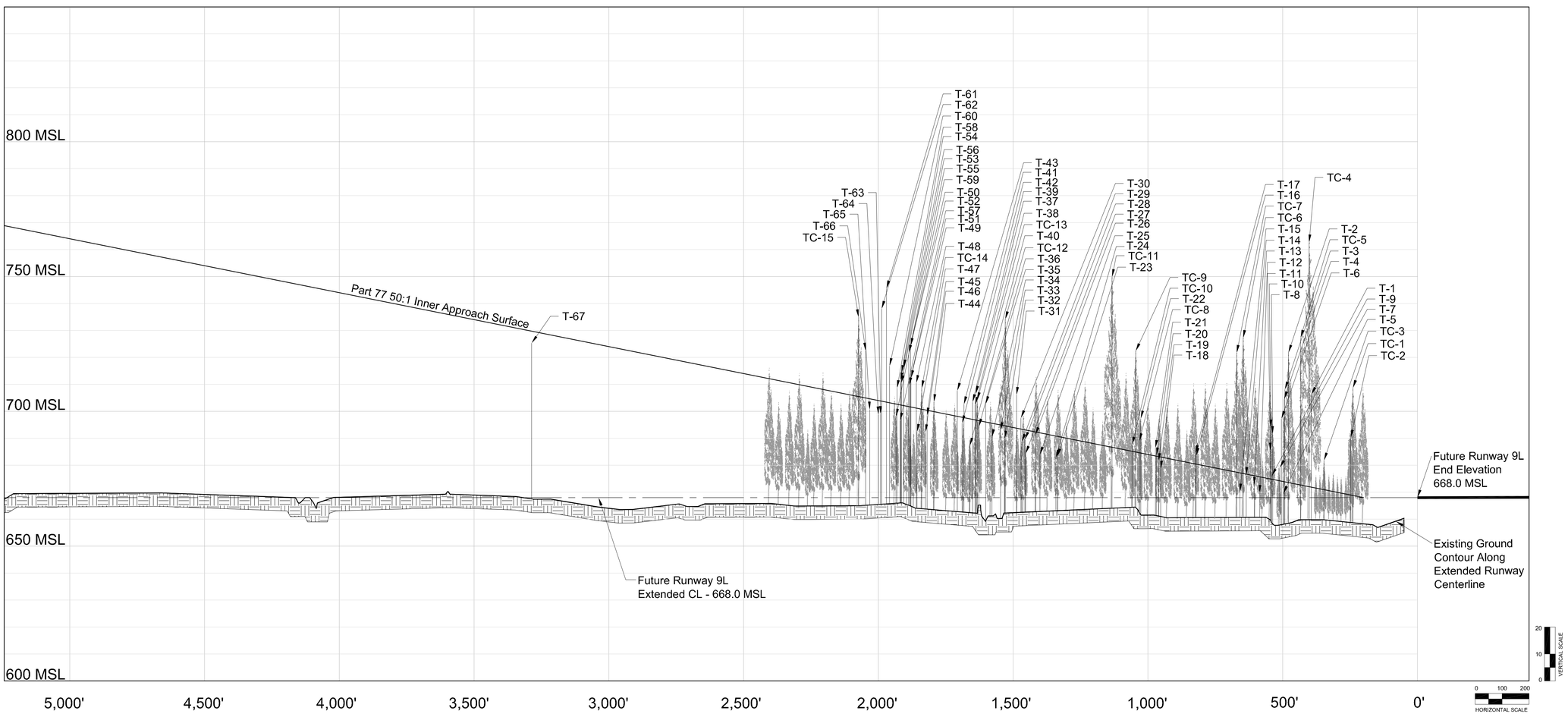
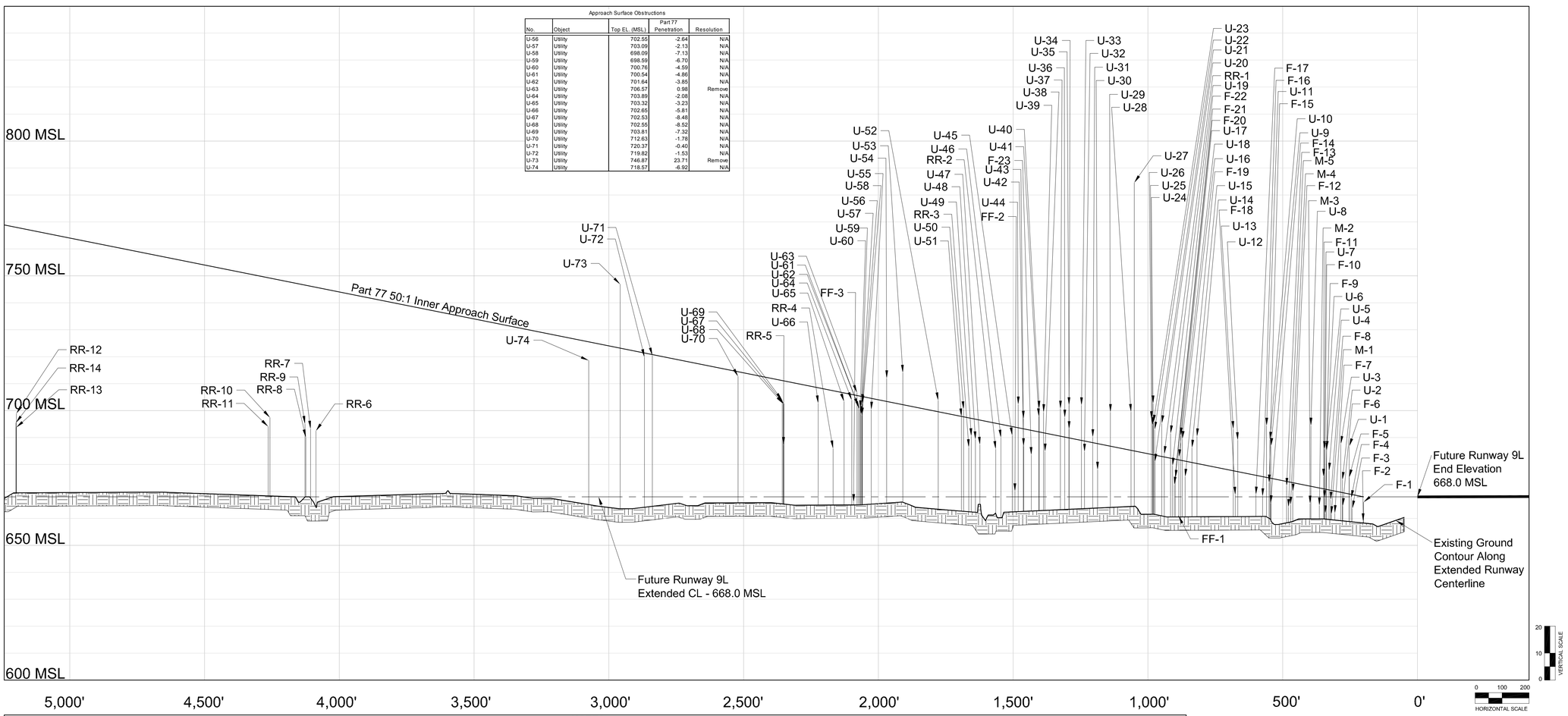
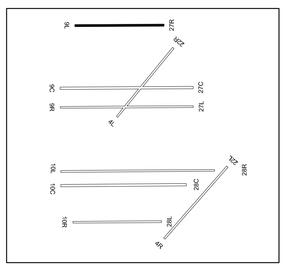






FUTURE AIRFIELD KEY MAP



Transitional Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
TF-1	Fence	672.26	-3.05	N/A
TF-2	Fence	671.36	-1.64	N/A
TF-3	Fence	679.54	-9.43	N/A
TFF-1	Future-Fence	664.00	-24.37	N/A
TFF-2	Future-Fence	660.00	-79.09	N/A
TFF-3	Future-Fence	660.00	-92.84	N/A
TFF-4	Future-Fence	664.00	-23.97	N/A
TFF-5	Future-Fence	669.00	-98.95	N/A
TRR-1	Railroad	681.59	-86.14	N/A
TRR-2	Railroad	685.90	-82.10	N/A
TRR-3	Railroad	688.48	-79.52	N/A
TRR-4	Railroad	692.37	-75.53	N/A
TRR-5	Railroad	695.85	-72.11	N/A
TT-1	Tree	688.28	-2.54	N/A
TT-2	Tree	687.48	-3.58	N/A
TT-3	Tree	714.78	-2.68	N/A
TT-4	Tree	677.26	-5.19	N/A
TT-5	Tree	677.34	-8.41	N/A
TT-6	Tree	686.56	-9.78	N/A
TT-7	Tree	717.70	13.35	Trim/Remove
TT-8	Tree	716.62	-1.98	N/A
TT-9	Tree	727.36	3.25	Trim/Remove
TT-10	Tree	736.58	21.31	Trim/Remove
TT-11	Tree	711.84	-6.82	N/A
TT-12	Tree	706.38	-0.19	N/A
TT-13	Tree	732.34	17.73	Trim/Remove
TTC-1	Tree Cluster	719.87	32.20	Trim/Remove
TTC-2	Tree Cluster	717.56	31.60	Trim/Remove
TTC-3	Tree Cluster	753.31	62.47	Trim/Remove
TU-1	Utility	690.73	12.92	Remove
TU-2	Utility	698.53	17.16	Remove
TU-3	Utility	703.58	2.99	Remove
TU-4	Utility	698.02	4.71	Remove
TU-5	Utility	687.71	14.33	Remove
TU-6	Utility	688.03	-0.11	N/A
TU-7	Utility	694.14	17.73	Remove
TU-8	Utility	697.52	-5.46	N/A
TU-9	Utility	692.70	17.51	Remove
TU-10	Utility	685.16	-8.51	N/A
TU-11	Utility	691.77	16.34	Remove
TU-12	Utility	702.27	-5.77	N/A
TU-13	Utility	694.26	-5.18	N/A
TU-14	Utility	694.37	1.42	Remove
TU-15	Utility	696.45	19.56	Remove
TU-16	Utility	705.13	-2.03	N/A
TU-17	Utility	698.09	4.78	Remove
TU-18	Utility	701.28	-5.61	N/A
TU-19	Utility	707.51	-7.45	N/A
TU-20	Utility	697.84	-9.02	N/A
TU-21	Utility	701.33	13.28	Remove
TU-22	Utility	715.70	-4.64	N/A
TU-23	Utility	707.35	6.11	Remove
TU-24	Utility	724.25	0.74	Remove
TU-25	Utility	706.82	-5.93	N/A
TU-26	Utility	706.70	15.89	Remove
TU-27	Utility	699.68	-9.12	N/A
TU-28	Utility	700.00	4.68	Remove
TU-29	Utility	705.99	-7.68	N/A
TU-30	Utility	731.36	36.23	Remove
TU-31	Utility	702.43	-9.76	N/A
TU-32	Utility	740.22	44.50	Remove
TU-33	Utility	709.72	9.64	Remove
TU-34	Utility	707.14	-4.82	N/A
TU-35	Utility	700.05	-4.28	N/A
TU-36	Utility	697.41	-4.50	N/A
TU-37	Utility	702.81	-3.00	N/A
TU-38	Utility	700.85	-5.44	N/A
TU-39	Utility	719.21	-9.00	N/A

Approach Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
T-1	Tree	706.17	34.30	Remove
T-2	Tree	721.72	48.14	Remove
T-3	Tree	708.04	34.20	Trim/Remove
T-4	Tree	704.44	30.55	Remove
T-5	Tree	669.48	-4.49	Remove
T-6	Tree	697.19	23.09	Remove
T-7	Tree	679.09	4.87	Remove
T-8	Tree	691.55	16.81	Remove
T-9	Tree	675.93	1.11	Remove
T-10	Tree	693.95	19.08	Remove
T-11	Tree	685.38	10.48	Remove
T-12	Tree	669.68	-6.03	Remove
T-13	Tree	672.61	-3.50	Remove
T-14	Tree	676.30	-0.41	Remove
T-15	Tree	670.20	-6.97	Remove
T-16	Tree	683.48	3.05	Remove
T-17	Tree	684.48	4.00	Remove
T-18	Tree	678.68	-4.37	Remove
T-19	Tree	681.49	-1.72	Remove
T-20	Tree	683.57	0.20	Remove
T-21	Tree	686.38	2.95	Remove
T-22	Tree	697.29	12.76	Trim/Remove
T-23	Tree	683.21	-7.51	N/A
T-24	Tree	682.78	-8.05	N/A
T-25	Tree	683.96	-8.05	N/A
T-26	Tree	691.20	-1.16	N/A
T-27	Tree	684.27	-8.81	N/A
T-28	Tree	689.46	-3.67	N/A
T-29	Tree	688.70	-4.66	N/A
T-30	Tree	697.49	4.07	Trim/Remove
T-31	Tree	706.04	12.30	Trim/Remove
T-32	Tree	689.80	-4.83	N/A
T-33	Tree	692.95	-1.98	N/A
T-34	Tree	690.39	-5.18	N/A
T-35	Tree	702.67	6.64	Trim/Remove
T-36	Tree	694.29	-2.25	N/A
T-37	Tree	706.49	9.71	Trim/Remove
T-38	Tree	702.36	5.54	Trim/Remove
T-39	Tree	703.35	6.34	Trim/Remove
T-40	Tree	687.21	-10.00	N/A
T-41	Tree	702.58	4.93	Trim/Remove
T-42	Tree	695.53	-2.26	N/A
T-43	Tree	707.61	9.47	Trim/Remove
T-44	Tree	703.38	3.50	Trim/Remove
T-45	Tree	698.39	-1.99	N/A
T-46	Tree	692.18	-8.32	N/A
T-47	Tree	692.31	-8.81	N/A
T-48	Tree	710.47	9.28	Trim/Remove
T-49	Tree	712.26	10.68	Trim/Remove
T-50	Tree	724.20	22.58	Trim/Remove
T-51	Tree	709.58	7.86	Trim/Remove
T-52	Tree	721.67	19.93	Trim/Remove
T-53	Tree	716.19	14.07	Trim/Remove
T-54	Tree	714.14	11.85	Trim/Remove
T-55	Tree	710.34	8.04	Trim/Remove
T-56	Tree	711.44	9.08	Trim/Remove
T-57	Tree	696.50	-5.89	N/A
T-58	Tree	708.59	5.97	Trim/Remove
T-59	Tree	697.96	-4.73	N/A
T-60	Tree	716.77	13.60	Trim/Remove
T-61	Tree	745.54	42.14	Trim/Remove
T-62	Tree	737.99	34.24	Trim/Remove
T-63	Tree	698.93	-4.90	N/A
T-64	Tree	698.77	-5.23	N/A
T-65	Tree	700.61	-4.03	N/A
T-66	Tree	722.40	17.46	Trim/Remove
T-67	Tree	725.28	-4.45	N/A
TC-1	Tree Cluster	708.67	39.88	Remove
TC-2	Tree Cluster	690.26	21.31	Remove
TC-3	Tree Cluster	681.72	10.78	Remove
TC-4	Tree Cluster	762.56	90.53	Remove
TC-5	Tree Cluster	727.25	54.58	Remove
TC-6	Tree Cluster	727.14	50.21	Trim/Remove
TC-7	Tree Cluster	721.60	44.19	Trim/Remove
TC-8	Tree Cluster	688.88	4.24	Trim/Remove
TC-9	Tree Cluster	722.35	37.45	Remove
TC-10	Tree Cluster	687.57	2.39	Trim/Remove
TC-11	Tree Cluster	749.74	63.08	Trim/Remove
TC-12	Tree Cluster	734.11	39.53	Trim/Remove
TC-13	Tree Cluster	704.13	7.47	Trim/Remove
TC-14	Tree Cluster	708.50	7.72	Trim/Remove
TC-15	Tree Cluster	734.82	29.36	Trim/Remove

Approach Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
F-1	Fence	666.00	-2.00	N/A
F-2	Fence	658.89	-9.13	Remove
F-3	Fence	663.62	-5.22	Remove
F-4	Fence	667.51	-1.40	Remove
F-5	Fence	675.18	6.11	Remove
F-6	Fence	664.53	-5.01	Remove
F-7	Fence	661.89	-8.25	Remove
F-8	Fence	666.84	-3.60	Remove
F-9	Fence	661.81	-9.04	Remove
F-10	Fence	667.45	-3.44	Remove
F-11	Fence	675.37	4.40	Remove
F-12	Fence	669.86	-3.39	N/A
F-13	Fence	672.02	-1.69	N/A
F-14	Fence	665.57	-9.33	Remove
F-15	Fence	673.24	-1.77	Remove
F-16	Fence	668.13	-7.36	Remove
F-17	Fence	668.78	-7.20	N/A
F-18	Fence	666.68	-8.84	Remove
F-19	Fence	675.38	-5.85	Remove
F-20	Fence	674.97	-6.99	N/A
F-21	Fence	672.41	-9.63	Remove
F-22	Fence	679.51	-2.67	Remove
F-23	Fence	683.48	-9.17	N/A
FF-1	Future-Fence	661.00	-20.73	N/A
FF-2	Future-Fence	670.00	-23.87	N/A
FF-3	Future-Fence	666.00	-39.84	N/A
M-1	Misc-Pile	661.50	-8.90	Remove
M-2	Misc-Pile	664.76	-6.52	Remove
M-3	Misc-Pile	665.44	-6.53	Remove
M-4	Misc-Pile	665.02	-8.40	Remove
M-5	Misc-Pile	664.14	-9.44	Remove
RR-1	Railroad	683.80	1.01	N/A
RR-2	Railroad	685.70	-9.60	N/A
RR-3	Railroad	686.36	-10.92	N/A
RR-4	Railroad	685.90	-21.46	N/A
RR-5	Railroad	687.21	-23.83	N/A
RR-6	Railroad	692.45	-53.28	N/A
RR-7	Railroad	693.22	-52.91	N/A
RR-8	Railroad	690.02	-56.45	N/A
RR-9	Railroad	695.01	-51.52	N/A
RR-10	Railroad	697.43	-51.72	N/A
RR-11	Railroad	694.07	-55.21	N/A
RR-12	Railroad	698.90	-69.05	N/A
RR-13	Railroad	693.73	-74.24	N/A
RR-14	Railroad	695.47	-72.53	N/A
U-1	Utility	686.72	17.65	Remove
U-2	Utility	674.24	4.67	Remove
U-3	Utility	687.53	17.84	Remove
U-4	Utility	677.63	7.07	Remove
U-5	Utility	685.72	14.98	Remove
U-6	Utility	685.00	14.25	Remove
U-7	Utility	685.69	14.78	Remove
U-8	Utility	694.36	22.45	Remove
U-9	Utility	686.79	11.92	Remove
U-10	Utility	689.13	14.19	Remove
U-11	Utility	694.32	19.12	Remove
U-12	Utility	688.97	11.64	Remove
U-13	Utility	693.12	15.45	Remove
U-14	Utility	690.36	9.99	Remove
U-15	Utility	686.16	5.43	Remove
U-16	Utility	689.43	7.98	Remove
U-17	Utility	690.68	9.11	Remove
U-18	Utility	682.64	0.94	Remove
U-19	Utility	691.49	9.17	Remove
U-20	Utility	695.20	12.23	Remove
U-21	Utility	680.96	-2.54	Remove
U-22	Utility	692.87	9.37	Remove
U-23	Utility	695.41	11.81	Remove
U-24	Utility	702.60	18.99	Remove
U-25	Utility	694.54	10.88	Remove
U-26	Utility	696.76	13.03	Remove
U-27	Utility	784.52	99.50	Remove
U-28	Utility	699.44	14.18	Remove
U-29	Utility	699.39	12.61	Remove
U-30	Utility	677.98	-9.76	N/A
U-31	Utility	690.06	1.97	Remove
U-32	Utility	684.65	-4.06	N/A
U-33	Utility	701.90	12.97	Remove
U-34	Utility	693.08	3.23	Remove
U-35	Utility	701.95	12.10	Remove
U-36	Utility	697.32	7.15	Remove
U-37	Utility	700.68	10.19	Remove
U-38	Utility	684.73	-6.91	N/A
U-39	Utility	699.36	7.61	Remove
U-40	Utility	700.66	8.60	Remove
U-41	Utility	697.80	5.70	Remove
U-42	Utility	686.75	-6.48	N/A
U-43	Utility	696.90	3.66	Remove
U-44	Utility	702.19	8.57	Remove
U-45	Utility	690.73	-3.34	N/A
U-46	Utility	689.90	-5.00	N/A
U-47	Utility	687.25	-9.22	N/A
U-48	Utility	689.27	-7.53	N/A
U-49	Utility	690.47	-6.63	N/A
U-50	Utility	700.44	2.76	Remove
U-51	Utility	697.76	-0.08	N/A
U-52	Utility	703.73	4.18	Remove
U-53	Utility	713.97	11.79	Remove
U-54	Utility	711.94	8.56	Remove
U-55	Utility	700.26	-4.27	N/A

Approach Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
U-56	Utility	702.55	-2.64	N/A
U-57	Utility	703.09	-2.13	N/A
U-58	Utility	698.09	-7.13	N/A
U-59	Utility	698.59	-6.70	N/A
U-60	Utility	700.76	-4.59	N/A
U-61	Utility	700.54	-4.86	N/A
U-62	Utility	701.64	-3.85	N/A
U-63	Utility	706.57	0.98	Remove
U-64	Utility	703.89	-2.08	N/A
U-65	Utility	703.32	-3.23	N/A
U-66	Utility	702.65	-5.81	N/A
U-67	Utility	702.53	-8.48	N/A
U-68	Utility	702.55	-8.52	N/A
U-69	Utility	703.81	-7.32	N/A
U-70	Utility	712.63	-1.78	N/A
U-71	Utility	720.37	-0.40	N/A
U-72	Utility	719.82	-1.53	N/A
U-73	Utility	746.87	23.71	Remove
U-74	Utility	718.57	-6.92	N/A

NOTES

1) WITH THE EXCEPTION OF ROAD, RAIL, AND WATER, ONLY OBJECTS WITH TOP ELEVATIONS LOCATED 10FT BELOW THE PART 77 SURFACE AND HIGHER ARE IDENTIFIED. FUTURE OBJECTS AND ROAD, RAIL AND WATER OBJECT EVALUATION POINTS ARE IDENTIFIED REGARDLESS OF CLEARANCE HEIGHT TO THE PART 77 SURFACE.
2) OBJECTS UNDER THE PART 77 TRANSITIONAL SURFACES ARE ONLY IDENTIFIED IN THE PLAN VIEW. THEY DO NOT APPEAR IN THE APPROACH SURFACE PROFILE VIEW.
3) ALL TOP ELEVATIONS OF ROAD AND RAIL OBJECT EVALUATION POINTS INCLUDE MOBILE OBJECT CLEARANCE HEIGHTS AS DEFINED BY 14 CFR PART 77.
4) FUTURE ROADS AND RAILROADS ARE IDENTIFIED IN THE PLAN AND PROFILE VIEWS. THE LOCATION AND ELEVATION OF FUTURE ROADS AND RAILROADS DEPICTED IS PRELIMINARY AND SUBJECT TO CHANGE. THE ELEVATION OF FUTURE OBJECTS WILL BE DETERMINED DURING THE ENGINEERING/DESIGN PHASE IN ACCORDANCE WITH FAA REQUIREMENTS.
5) FUTURE NAVIGATIONAL AIDS HAVE NOT BEEN ASSESSED AS PART OF THIS ANALYSIS. THE LOCATION AND ELEVATION OF EACH FUTURE SYSTEM COMPONENT DEPICTED ON THIS DRAWING WILL BE COORDINATED, CONTROLLED, AND ULTIMATELY APPROVED BY THE FAA THROUGHOUT THE ENGINEERING DESIGN REVIEW (EDR) AND IMPLEMENTATION PROCESS.
6) IN GENERAL TERMS, OBJECTS WITHIN THE OBJECT FREE AREAS (OFA) ARE TO BE REMOVED. TREES OUTSIDE THE OFA THAT PENETRATE THE PART 77 50:1 SURFACE HAVE THE OPTION TO BE TRIMMED OR REMOVED AND ARE LISTED AS "TRIM/REMOVE". GENERALLY, BUILDINGS WITHIN THE RUNWAY PROTECTION ZONES (RPZ) AND WITHIN AIRPORT PROPERTY ARE ALSO SLATED TO BE REMOVED. ALL OTHER OBJECTS WITHIN AIRPORT PROPERTY THAT DO NOT PENETRATE THE APPROACH SURFACE MAY BE REMOVED FOR OTHER PURPOSES; HOWEVER FOR PURPOSES OF THE APPROACH DRAWINGS THEY ARE LISTED AS NOT APPLICABLE "N/A". THE RESOLUTION FOR OBJECTS OUTSIDE AIRPORT PROPERTY THAT PENETRATE THE PART 77 50:1 SURFACE IS THE PLACEMENT OF AN OBSTRUCTION LIGHT (OL) ON THE OBJECT.
7) SOURCE: O'HARE INTERNATIONAL AIRPORT PHOTOGRAMMETRY, MARTINEZ CORPORATION, NOVEMBER 20, 2001.

LEGEND

TREE CLUSTER - PLAN VIEW (NOTE: Circle represents the maximum penetration in the cluster)

TREE CLUSTER - PROFILE VIEW (NOTE: Vertical line represents the maximum penetration in the cluster)

O'Hare Modernization Program
Rosemarie S. Andolino
Executive Director

CHICAGO AIRPORT SYSTEM
John A. Roberson
Commissioner

FUTURE RUNWAY 9L INNER APPROACH SURFACE (1 of 2)

No	Revisions	Date

O'Hare International Airport

MAGNETIC NORTH DECLINATION 2.8° W (AUGUST 1, 2005) — TRUE NORTH

DRAWN BY: MNT
CHECKED BY: FG
PREPARED BY: Ricondo & Associates, Inc.
September 2005
Sheet 18 of 56

Drawing: Z:\Chicago\ORD\OMP\ALP-DrawingSet-FINAL-2005 \ALP Set\18-9L-Obstructions (1 of 2).dwg_Layout: 9L_Sep 20, 2005, 3:07pm