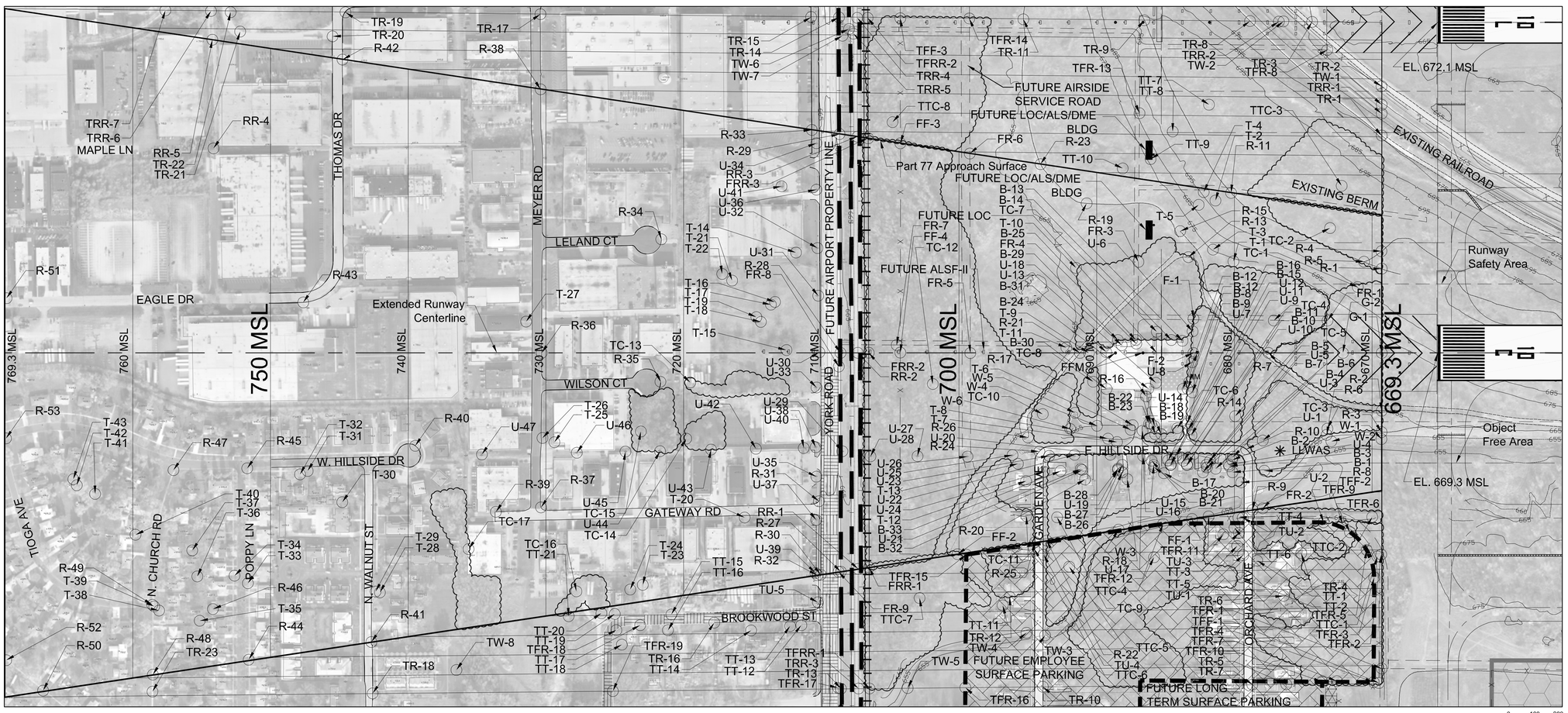
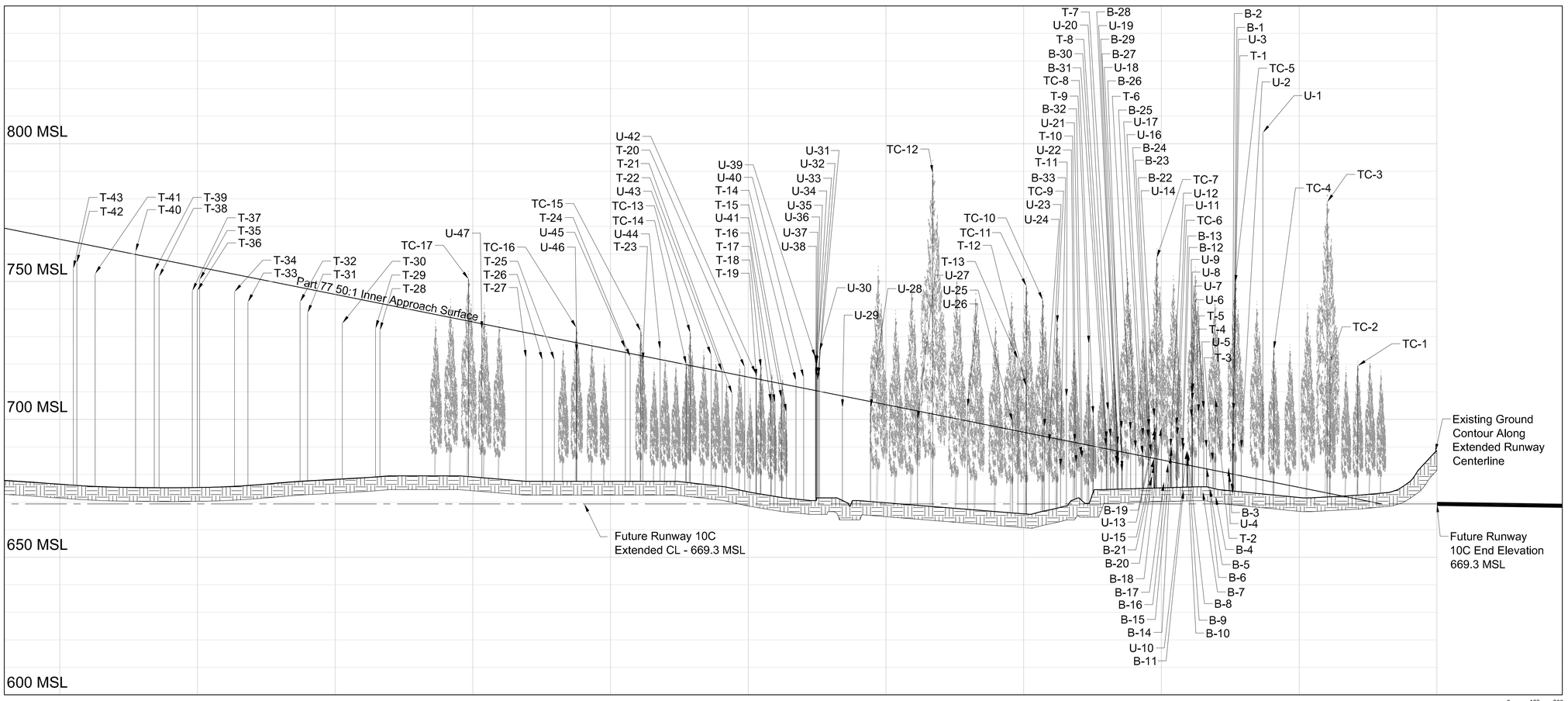
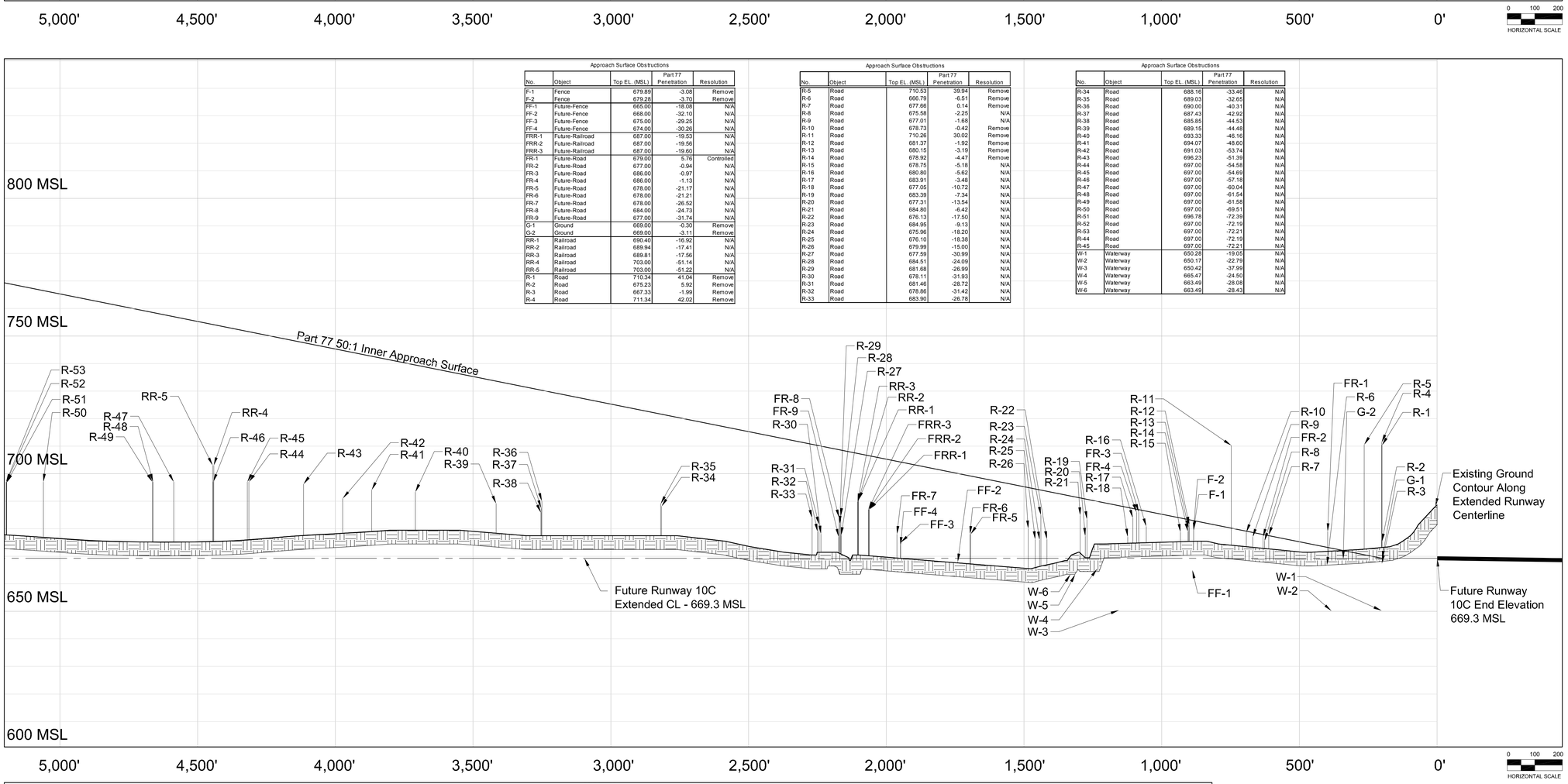
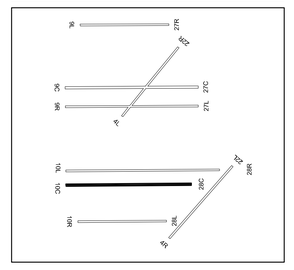






FUTURE AIRFIELD KEY MAP



Transitional Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
TFF-1	Future-Fence	687.00	-82.07	N/A
TFF-2	Future-Fence	676.00	-10.35	N/A
TFF-3	Future-Fence	675.00	-93.97	N/A
TFRR-1	Future-Railroad	687.00	-82.25	N/A
TFRR-2	Future-Railroad	687.00	-81.99	N/A
TFR-1	Future-Road	689.00	-72.55	N/A
TFR-2	Future-Road	685.00	-17.42	N/A
TFR-3	Future-Road	687.00	-27.30	N/A
TFR-4	Future-Road	694.00	-74.58	N/A
TFR-5	Future-Road	687.00	-13.00	N/A
TFR-6	Future-Road	687.00	-3.73	N/A
TFR-7	Future-Road	694.00	-73.88	N/A
TFR-8	Future-Road	681.00	-73.72	N/A
TFR-9	Future-Road	685.00	-0.42	N/A
TFR-10	Future-Road	694.00	-74.13	N/A
TFR-11	Future-Road	680.00	-1.92	N/A
TFR-12	Future-Road	685.00	-0.36	N/A
TFR-13	Future-Road	705.00	-15.92	N/A
TFR-14	Future-Road	681.00	-88.18	N/A
TFR-15	Future-Road	677.00	-23.36	N/A
TFR-16	Future-Road	677.00	-92.30	N/A
TFR-17	Future-Road	677.00	-91.75	N/A
TFR-18	Future-Road	691.00	-46.68	N/A
TFR-19	Future-Road	690.00	-79.27	N/A
TRR-1	Railroad	687.81	-34.16	N/A
TRR-2	Railroad	686.32	-82.83	N/A
TRR-3	Railroad	690.78	-78.43	N/A
TRR-4	Railroad	689.70	-79.24	N/A
TRR-5	Railroad	689.25	-71.47	N/A
TRR-6	Railroad	703.00	-66.14	N/A
TRR-7	Railroad	703.00	-66.20	N/A
TR-1	Road	691.77	-18.82	N/A
TR-2	Road	684.48	-51.70	N/A
TR-3	Road	692.39	-76.80	N/A
TR-4	Road	695.20	-6.13	N/A
TR-5	Road	695.34	-73.90	N/A
TR-6	Road	690.06	-33.32	N/A
TR-7	Road	691.70	-77.55	N/A
TR-8	Road	688.57	-80.71	N/A
TR-9	Road	712.49	-56.69	N/A
TR-10	Road	675.90	-93.38	N/A
TR-11	Road	684.88	-84.15	N/A
TR-12	Road	676.35	-46.15	N/A
TR-13	Road	677.16	-92.05	N/A
TR-14	Road	681.26	-87.84	N/A
TR-15	Road	682.68	-86.45	N/A
TR-16	Road	685.29	-49.06	N/A
TR-17	Road	687.87	-81.31	N/A
TR-18	Road	694.15	-75.08	N/A
TR-19	Road	690.68	-78.44	N/A
TR-20	Road	690.70	-65.91	N/A
TR-21	Road	697.00	-61.62	N/A
TR-22	Road	697.00	-71.62	N/A
TR-23	Road	697.00	-70.17	N/A
TT-1	Tree	704.78	-0.15	N/A
TT-2	Tree	715.76	2.13	Trim/Remove
TT-3	Tree	704.97	14.50	Trim/Remove
TT-4	Tree	715.03	32.56	Trim/Remove
TT-5	Tree	704.59	7.33	Trim/Remove
TT-6	Tree	705.58	17.79	Trim/Remove
TT-7	Tree	716.29	-9.40	N/A
TT-8	Tree	707.58	-4.05	N/A
TT-9	Tree	692.05	-5.15	N/A
TT-10	Tree	685.18	-7.03	N/A
TT-11	Tree	721.13	-5.69	N/A
TT-12	Tree	738.13	2.07	Trim/Remove
TT-13	Tree	739.42	2.95	Trim/Remove
TT-14	Tree	732.88	-5.65	N/A
TT-15	Tree	724.09	-5.78	N/A
TT-16	Tree	728.43	-9.54	N/A
TT-17	Tree	726.20	-9.02	N/A
TT-18	Tree	737.81	-7.43	N/A
TT-19	Tree	732.55	3.29	Trim/Remove
TT-20	Tree	723.21	-5.65	N/A
TT-21	Tree	722.25	-7.97	N/A
TTC-1	Tree Cluster	723.23	19.82	Trim/Remove
TTC-2	Tree Cluster	720.70	37.81	Trim/Remove
TTC-3	Tree Cluster	723.00	38.68	Trim/Remove
TTC-4	Tree Cluster	733.46	30.77	Trim/Remove
TTC-5	Tree Cluster	728.91	21.78	Trim/Remove
TTC-6	Tree Cluster	712.00	14.39	Trim/Remove
TTC-7	Tree Cluster	794.08	71.48	Trim/Remove
TTC-8	Tree Cluster	757.66	42.65	Trim/Remove
TU-1	Utility	698.04	-4.04	N/A
TU-2	Utility	689.18	6.51	Remove
TU-3	Utility	681.44	-9.68	N/A
TU-4	Utility	694.64	-6.16	N/A
TU-5	Utility	722.77	-1.54	N/A
TW-1	Waterway	662.40	-64.19	N/A
TW-2	Waterway	661.08	-108.21	N/A
TW-3	Waterway	655.23	-87.40	N/A
TW-4	Waterway	652.28	-88.91	N/A
TW-5	Waterway	652.83	-116.39	N/A
TW-6	Waterway	661.41	-101.71	N/A
TW-7	Waterway	661.41	-98.16	N/A
TW-8	Waterway	662.30	-95.21	N/A

Approach Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
B-1	Building	672.84	-7.30	Remove
B-2	Building	673.66	-6.50	Remove
B-3	Building	680.35	-0.02	Remove
B-4	Building	671.97	-9.39	Remove
B-5	Building	674.91	-6.86	Remove
B-6	Building	682.17	0.17	Remove
B-7	Building	673.80	-8.49	Remove
B-8	Building	688.36	4.96	Remove
B-9	Building	687.85	4.45	Remove
B-10	Building	686.16	2.72	Remove
B-11	Building	674.27	-9.43	Remove
B-12	Building	688.37	4.64	Remove
B-13	Building	690.24	6.47	Remove
B-14	Building	689.77	5.20	Remove
B-15	Building	687.03	2.41	Remove
B-16	Building	683.76	-1.05	Remove
B-17	Building	677.13	-7.99	Remove
B-18	Building	696.08	11.67	Remove
B-19	Building	697.06	11.31	Remove
B-20	Building	683.55	-2.29	Remove
B-21	Building	679.08	-6.93	Remove
B-22	Building	687.85	1.78	Remove
B-23	Building	697.06	10.87	Remove
B-24	Building	693.25	7.00	Remove
B-25	Building	689.32	2.17	Remove
B-26	Building	681.92	-6.23	Remove
B-27	Building	680.75	-7.40	Remove
B-28	Building	683.09	-5.36	Remove
B-29	Building	690.76	2.29	Remove
B-30	Building	692.63	3.35	Remove
B-31	Building	690.11	0.80	Remove
B-32	Building	685.70	-5.36	Remove
B-33	Building	682.68	-9.94	Remove
T-1	Tree	702.86	22.79	Remove
T-2	Tree	707.46	26.08	Trim/Remove
T-3	Tree	684.88	3.33	Remove
T-4	Tree	703.70	21.47	Trim/Remove
T-5	Tree	702.42	19.82	Trim/Remove
T-6	Tree	696.01	8.48	Trim/Remove
T-7	Tree	683.76	-4.77	N/A
T-8	Tree	703.15	13.97	Trim/Remove
T-9	Tree	727.37	36.80	Trim/Remove
T-10	Tree	683.96	-7.54	N/A
T-11	Tree	708.01	15.81	Trim/Remove
T-12	Tree	711.87	16.75	Trim/Remove
T-13	Tree	721.85	26.13	Trim/Remove
T-14	Tree	714.04	2.20	Trim/Remove
T-15	Tree	702.56	-9.97	N/A
T-16	Tree	706.05	-7.31	N/A
T-17	Tree	706.18	-7.48	N/A
T-18	Tree	718.78	4.39	Trim/Remove
T-19	Tree	715.25	0.54	Trim/Remove
T-20	Tree	718.98	3.42	Trim/Remove
T-21	Tree	709.31	-7.17	N/A
T-22	Tree	717.38	0.18	Trim/Remove
T-23	Tree	721.23	-1.73	N/A
T-24	Tree	722.71	-1.17	N/A
T-25	Tree	721.56	-7.82	N/A
T-26	Tree	721.50	-8.74	N/A
T-27	Tree	722.20	-9.23	N/A
T-28	Tree	732.20	-9.86	N/A
T-29	Tree	732.99	-9.38	N/A
T-30	Tree	734.85	-9.93	N/A
T-31	Tree	738.60	-8.70	N/A
T-32	Tree	742.60	-5.25	N/A
T-33	Tree	742.53	-9.11	N/A
T-34	Tree	746.31	-6.30	N/A
T-35	Tree	750.66	-4.48	N/A
T-36	Tree	746.70	-8.61	N/A
T-37	Tree	746.63	-9.05	N/A
T-38	Tree	751.74	-6.35	N/A
T-39	Tree	753.78	-4.66	N/A
T-40	Tree	760.79	0.99	Trim/Remove
T-41	Tree	752.85	-9.88	N/A
T-42	Tree	756.74	-7.32	N/A
T-43	Tree	754.67	-9.65	N/A
TC-1	Tree Cluster	719.44	48.40	Remove
TC-2	Tree Cluster	720.61	47.56	Remove
TC-3	Tree Cluster	778.87	105.62	Remove
TC-4	Tree Cluster	725.34	48.20	Remove
TC-5	Tree Cluster	749.39	69.45	Remove
TC-6	Tree Cluster	694.09	9.94	Remove
TC-7	Tree Cluster	758.56	72.92	Remove
TC-8	Tree Cluster	701.79	11.53	Trim/Remove
TC-9	Tree Cluster	734.76	41.88	Remove
TC-10	Tree Cluster	743.27	49.35	Trim/Remove
TC-11	Tree Cluster	748.27	53.16	Trim/Remove
TC-12	Tree Cluster	789.28	87.38	Trim/Remove
TC-13	Tree Cluster	731.34	11.82	Trim/Remove
TC-14	Tree Cluster	719.95	0.14	Trim/Remove
TC-15	Tree Cluster	731.91	8.81	Trim/Remove
TC-16	Tree Cluster	733.32	5.54	Trim/Remove
TC-17	Tree Cluster	750.88	15.27	Trim/Remove
U-1	Utility	804.00	126.06	Remove
U-2	Utility	689.46	9.95	Remove
U-3	Utility	688.15	8.05	Remove
U-4	Utility	682.36	1.94	Remove
U-5	Utility	689.50	7.47	Remove
U-6	Utility	709.97	26.94	Remove
U-7	Utility	706.57	23.52	Remove
U-8	Utility	709.11	26.04	Remove
U-9	Utility	700.58	17.46	Remove
U-10	Utility	688.58	5.13	Remove
U-11	Utility	697.64	13.43	Remove
U-12	Utility	689.94	5.30	Remove
U-13	Utility	695.61	9.91	Remove
U-14	Utility	700.95	15.14	Remove
U-15	Utility	685.67	-0.18	Remove
U-16	Utility	693.83	7.20	Remove
U-17	Utility	687.25	0.58	Remove
U-18	Utility	696.43	8.25	Remove
U-19	Utility	685.25	-3.21	Remove
U-20	Utility	693.52	4.52	Remove
U-21	Utility	686.94	-4.21	Remove
U-22	Utility	691.69	0.09	Remove
U-23	Utility	691.61	-1.84	Remove
U-24	Utility	697.15	3.34	Remove
U-25	Utility	699.20	3.09	Remove
U-26	Utility	704.43	5.05	Remove
U-27	Utility	699.90	-3.11	N/A
U-28	Utility	704.30	-2.13	N/A
U-29	Utility	704.26	-4.21	N/A
U-30	Utility	724.67	14.53	Remove
U-31	Utility	715.75	5.53	Remove
U-32	Utility	713.92	3.65	Remove
U-33	Utility	720.06	9.72	Remove
U-34	Utility	715.93	5.58	Remove
U-35	Utility	719.34	8.99	Remove
U-36	Utility	715.20	4.84	Remove
U-37	Utility	719.97	9.60	Remove
U-38	Utility	720.23	9.82	Remove
U-39	Utility	722.38	11.96	Remove
U-40	Utility	715.09	3.81	Remove
U-41	Utility	707.62	-5.27	N/A
U-42	Utility	716.47	1.72	Remove
U-43	Utility	723.42	5.42	Remove
U-44	Utility	725.32	3.61	Remove
U-45	Utility	725.76	1.54	Remove
U-46	Utility	724.17	-3.58	N/A
U-47	Utility	732.54	-2.11	N/A

Approach Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
F-1	Fence	679.89	-3.08	Remove
F-2	Fence	679.28	-3.70	Remove
FF-1	Future-Fence	665.00	-18.08	N/A
FF-2	Future-Fence	668.00	-32.10	N/A
FF-3	Future-Fence	675.00	-29.25	N/A
FF-4	Future-Fence	674.00	-30.26	N/A
FRR-1	Future-Railroad	687.00	-19.53	N/A
FRR-2	Future-Railroad	687.00	-19.56	N/A
FRR-3	Future-Railroad	687.00	-19.60	N/A
FR-1	Future-Road	679.00	-5.76	Controlled
FR-2	Future-Road	677.00	-0.94	N/A
FR-3	Future-Road	686.00	-0.97	N/A
FR-4	Future-Road	686.00	-1.13	N/A
FR-5	Future-Road	678.00	-21.17	N/A
FR-6	Future-Road	678.00	-21.21	N/A
FR-7	Future-Road	678.00	-26.52	N/A
FR-8	Future-Road	684.00	-24.73	N/A
FR-9	Future-Road	677.00	-31.74	N/A
G-1	Ground	669.00	-0.30	Remove
G-2	Ground	669.00	-3.11	Remove
RR-1	Railroad	690.40	-16.92	N/A
RR-2	Railroad	689.94	-17.41	N/A
RR-3	Railroad	689.81	-17.56	N/A
RR-4	Railroad	703.00	-51.14	N/A
RR-5	Railroad	703.00	-51.22	N/A
R-1	Road	710.34	41.04	Remove
R-2	Road	675.23	5.92	Remove
R-3	Road	667.33	-1.99	Remove
R-4	Road	711.34	42.02	Remove

Approach Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
R-5	Road	710.53	39.94	Remove
R-6	Road	666.79	-6.51	Remove
R-7	Road	677.66	0.14	Remove
R-8	Road	675.58	-2.25	N/A
R-9	Road	677.01	-1.68	N/A
R-10	Road	678.73	-0.42	Remove
R-11	Road	710.26	30.02	Remove
R-12	Road	681.37	-1.92	Remove
R-13	Road	680.15	-3.19	Remove
R-14	Road	678.92	-4.47	Remove
R-15	Road	678.75	-5.18	N/A
R-16	Road	680.80	-5.62	N/A
R-17	Road	683.91	-3.48	N/A
R-18	Road	677.05	-10.72	N/A
R-19	Road	683.39	-7.34	N/A
R-20	Road	677.31	-13.54	N/A
R-21	Road	684.80	-6.42	N/A
R-22	Road	676.13	-17.50	N/A
R-23	Road	684.95	-9.13	N/A
R-24	Road	675.96	-18.20	N/A
R-25	Road	676.10	-18.38	N/A
R-26	Road	679.99	-15.00	N/A
R-27	Road	677.59	-30.99	N/A
R-28	Road	684.51	-24.09	N/A
R-29	Road	681.68	-26.99	N/A
R-30	Road	678.11	-31.93	N/A
R-31	Road	681.46	-28.72	N/A
R-32	Road	678.86	-31.42	N/A
R-33	Road	683.90	-26.78	N/A

Approach Surface Obstructions

No.	Object	Top EL. (MSL)	Part 77 Penetration	Resolution
R-34	Road	688.16	-33.46	N/A
R-35	Road	689.03	-32.65	N/A
R-36	Road	690.00	-40.31	N/A
R-37	Road	687.43	-42.92	N/A
R-38	Road	685.85	-44.53	N/A
R-39	Road	689.15	-44.48	N/A
R-40	Road	693.33	-46.16	N/A
R-41	Road	694.07	-48.60	N/A
R-42	Road	691.03	-53.74	N/A
R-43	Road	696.23	-51.39	N/A
R-44	Road	697.00	-54.58	N/A
R-45	Road	697.00	-54.69	N/A
R-46	Road	697.00	-57.18	N/A
R-47	Road	697.00	-60.04	N/A
R-48	Road	697.00	-61.54	N/A
R-49	Road	697.00	-61.58	N/A
R-50	Road	697.00	-69.51	N/A
R-51	Road	696.78	-72.39	N/A
R-52	Road	697.00	-72.19	N/A
R-53	Road	697.00	-72.21	N/A
R-44	Road	697.00	-72.19	N/A
R-45	Road	697.00	-72.21	N/A
W-1	Waterway	650.28	-19.05	N/A
W-2	Waterway	650.17	-22.79	N/A
W-3	Waterway	650.42	-37.99	N/A
W-4	Waterway	665.47	-24.50	N/A
W-5	Waterway	663.49	-28.08	N/A
W-6	Waterway	663.49	-28.43	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)

Rosemarie S. Andolino
Executive Director

John A. Roberson
Commissioner

FUTURE RUNWAY 10C
INNER APPROACH SURFACE

No	Revisions	Date

O'Hare International Airport

MAGNETIC NORTH
DECLINATION 4.24° W
(AUGUST 1, 2005)
TRUE NORTH

DRAWN BY: MNT
CHECKED BY: FG
PREPARED BY:
Ricondo & Associates, Inc.
September 2005
Sheet 29 of 56

Drawing: Z:\Chicago\ORD\OMP\ALP-DrawingSet-FINAL-2005 \ALP Set\29-10C-Obstructions.dwg_Layout: 10C_Sep 19, 2005, 2:09pm