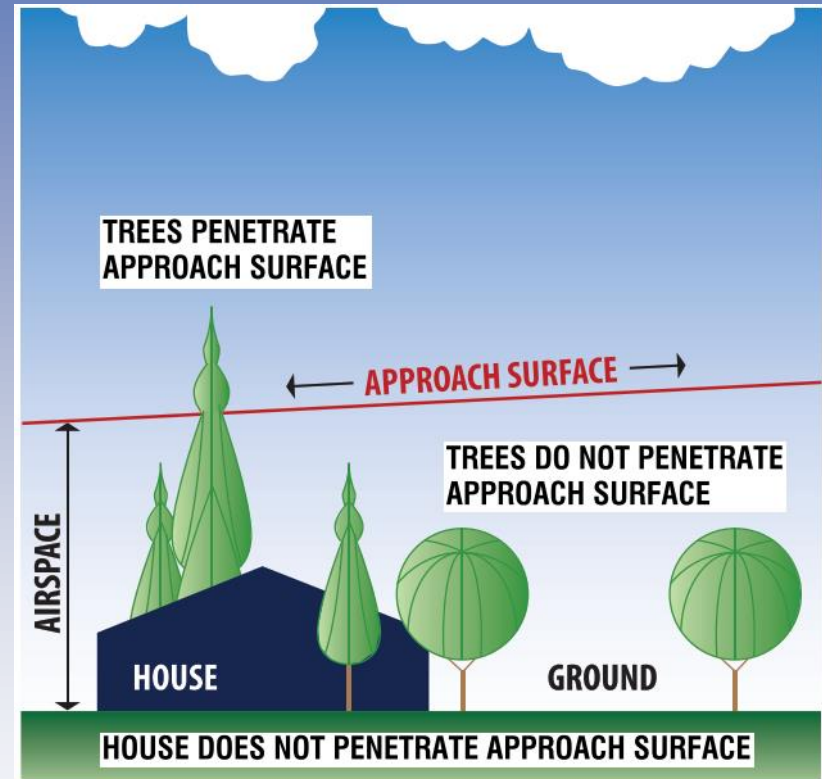


Defining Obstructions

- Airports have many surfaces that are required to be kept clear of obstructions to maintain compliance with federal grant assurances, federal design standards, and state licensing standards.
- These surfaces are intended to maintain appropriate approach and departure paths into/out of an airport to provide safe passage for both aircraft in the air as well as persons on the ground.
- These surfaces can include approach, departure, and navigational aid surfaces.



Example of how various objects may or may not impact a surface.

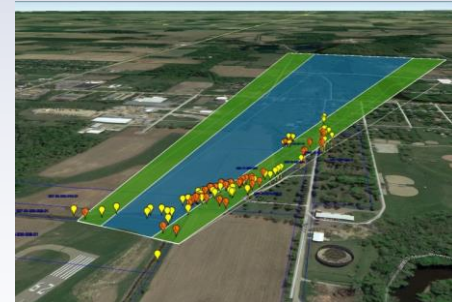
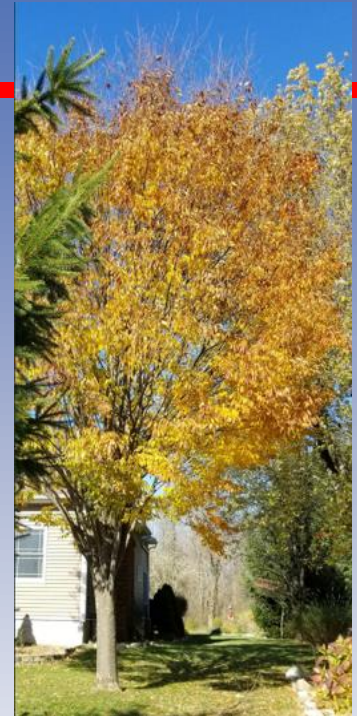
Mitigating Obstructions

Step 1 – Purchase of Rights to Mitigate

A determination is made whether the parcel should be purchased in fee or if an avigation easement is appropriate.

Avigation easements acquire the right to control the height of objects (trees and structures) on the property in perpetuity on the property and the right to remove objects that already penetrate, or those that have the potential to penetrate the heights outlined in the easement.

The acquisition process for both fee or easements, are governed by the Uniform Relocation Assistance and Real Property Acquisition Policies Act (Relocation Act) of 1970 (P.L. 91-646). The value for acquisition or easement is determined by a fair market value appraisal which is prescribed by the Relocation Act.



Mitigating Obstructions

Step 2 – Actual Mitigation Measures

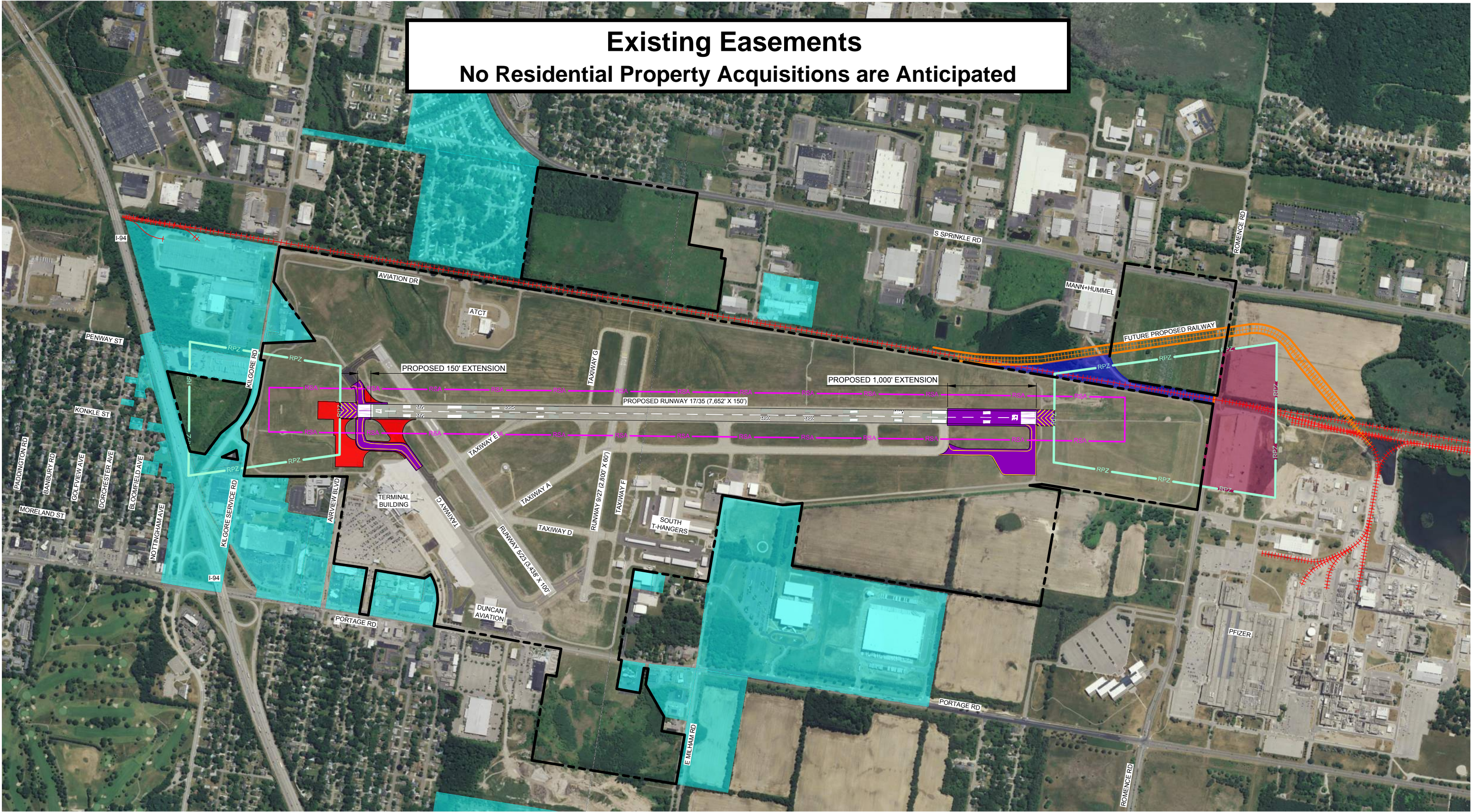
Specific mitigation measures are determined based upon the type of acquisition and the type of obstruction

- Fee acquisitions usually require that all objects on the property be removed to ground level and the property be maintained in a clear condition
- Avigation easements require that objects identified as obstructions, or potential obstructions, be removed to reduce their impact on approach and departure surfaces.
- A one-time replacement with a low-growing species to help mitigate tree impacts is proposed.



Existing Easements

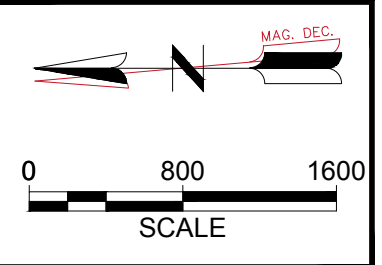
No Residential Property Acquisitions are Anticipated



**KALAMAZOO/BATTLE CREEK
 INTERNATIONAL AIRPORT RUNWAY
 BUILD ALTERNATIVE 2
 17-35 - 1,150' EXTENSION**
 KALAMAZOO, MICHIGAN

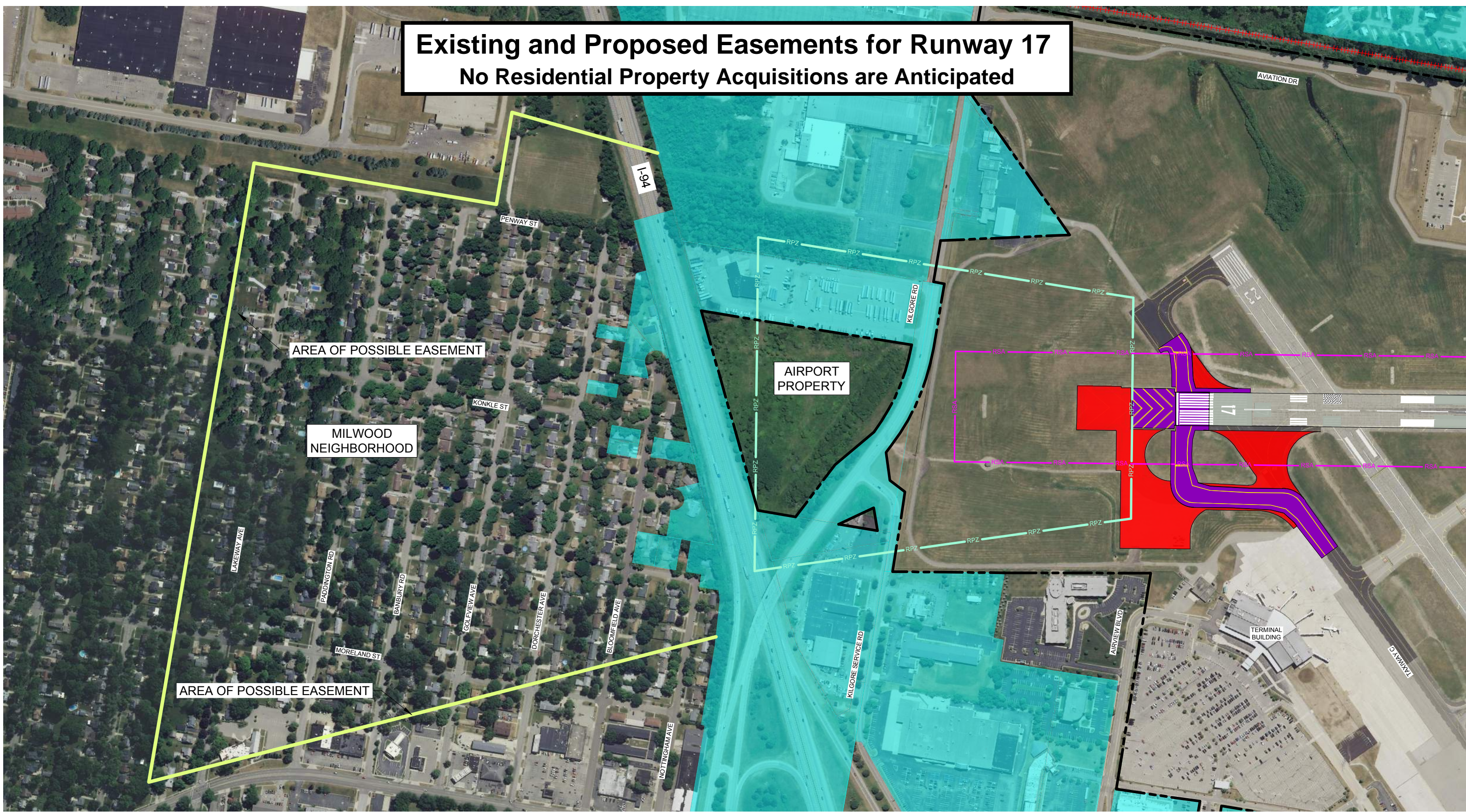
LEGEND	
	RUNWAY PROTECTION ZONE
	RUNWAY SAFETY AREA
	EXISTING RAILROAD
	PROPOSED RAILROAD
	EXISTING AIRPORT PROPERTY LINE

	EXISTING EASEMENT
	FUTURE RPZ EASEMENT
	PROPERTY ACQUISITION
	PROPOSED PAVEMENT
	PAVEMENT REMOVED



Existing and Proposed Easements for Runway 17

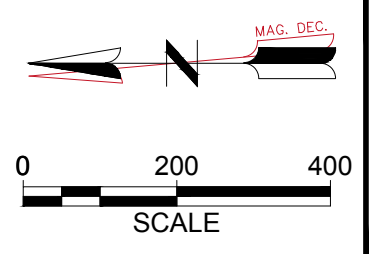
No Residential Property Acquisitions are Anticipated



**KALAMAZOO/BATTLE CREEK
INTERNATIONAL AIRPORT RUNWAY
BUILD ALTERNATIVE 2
17-35 - 1,150' EXTENSION
KALAMAZOO, MICHIGAN**

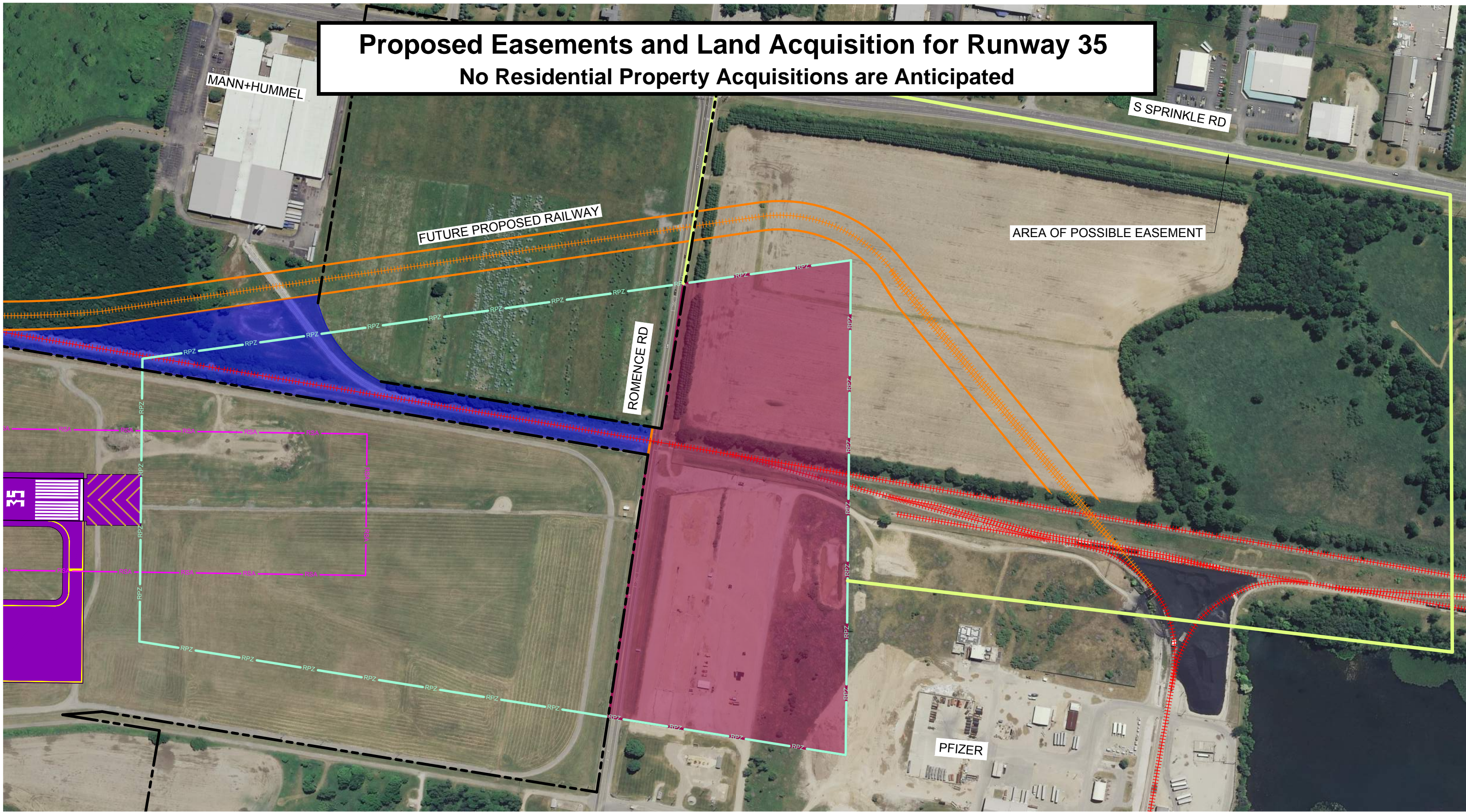
- LEGEND**
- RUNWAY PROTECTION ZONE
 - RUNWAY SAFETY AREA
 - EXISTING AIRPORT PROPERTY LINE
 - AREA OF POSSIBLE EASEMENT

- EXISTING EASEMENT
- PROPOSED PAVEMENT
- PAVEMENT REMOVED



Proposed Easements and Land Acquisition for Runway 35

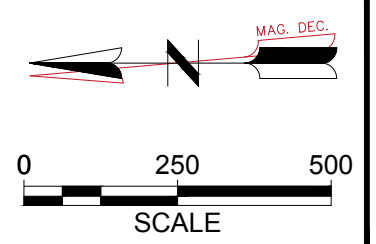
No Residential Property Acquisitions are Anticipated



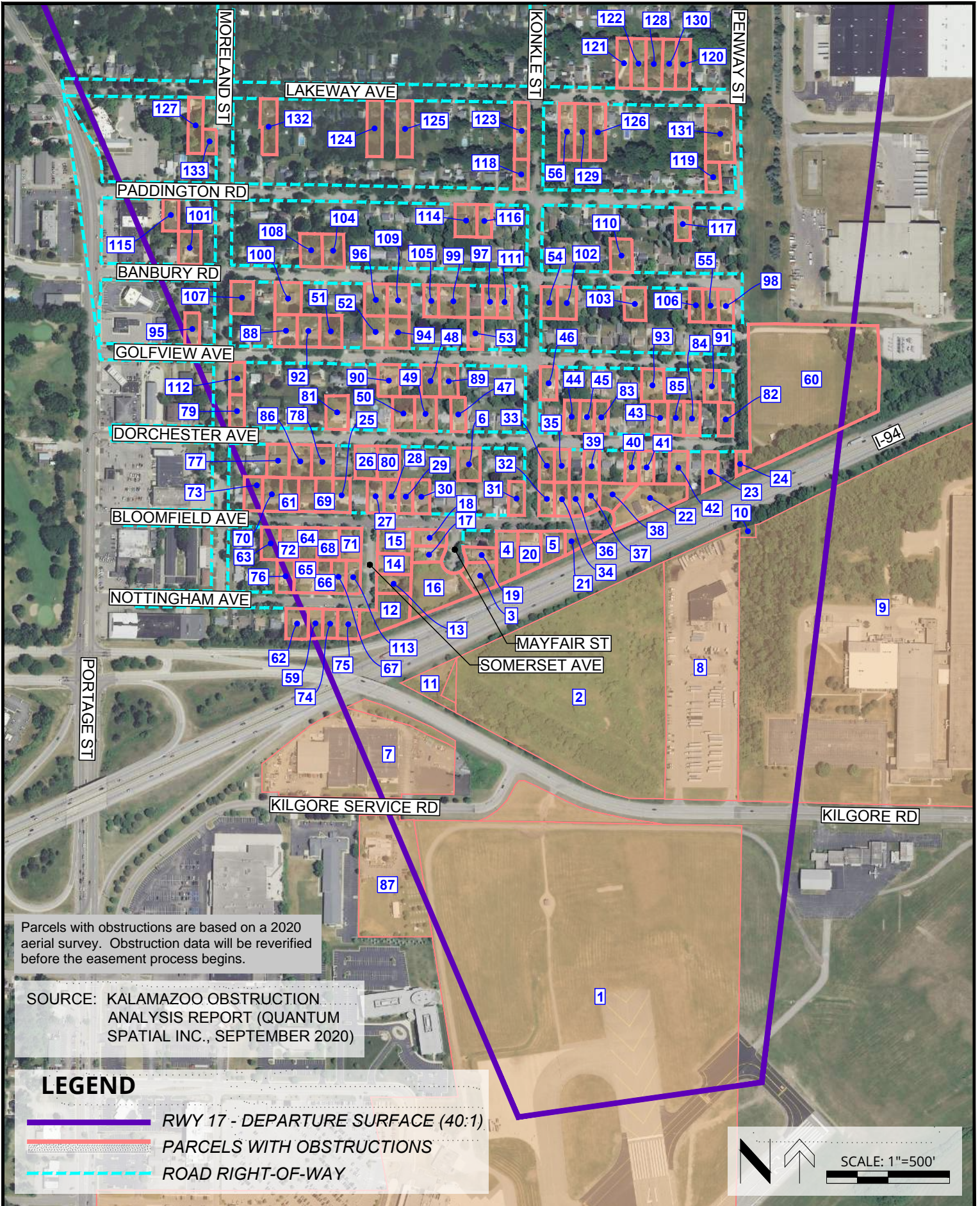
**KALAMAZOO/BATTLE CREEK
 INTERNATIONAL AIRPORT RUNWAY
 BUILD ALTERNATIVE 2
 17-35 - 1,150' EXTENSION
 KALAMAZOO, MICHIGAN**

- LEGEND**
- RUNWAY PROTECTION ZONE
 - RUNWAY SAFETY AREA
 - - - - - EXISTING RAILROAD
 - - - - - PROPOSED RAILROAD
 - - - - - EXISTING AIRPORT PROPERTY LINE
 - - - - - AREA OF POSSIBLE EASEMENT

- FUTURE RPZ EASEMENT
- PROPERTY ACQUISITION
- PROPOSED PAVEMENT



POTENTIAL OBSTRUCTIONS IN MILWOOD NEIGHBORHOOD-2020 40:1 DEPARTURE SURFACE



Parcels with obstructions are based on a 2020 aerial survey. Obstruction data will be reverified before the easement process begins.

SOURCE: KALAMAZOO OBSTRUCTION ANALYSIS REPORT (QUANTUM SPATIAL INC., SEPTEMBER 2020)

LEGEND

- RWY 17 - DEPARTURE SURFACE (40:1)
- PARCELS WITH OBSTRUCTIONS
- ROAD RIGHT-OF-WAY

SCALE: 1"=500'

KALAMAZOO-BATTLE CREEK INTERNATIONAL AIRPORT RUNWAY 17/35 EASEMENT SUMMARY TABLE

Runway Approach	Parcel #	Tax ID #	Property Address	Owner's Name (based on 2020 Kalamazoo Co. GIS)	Existing Easement
35	2	10-00012-900-O	3610 E. Milham Ave.	Pennsylvania Lines LLC	E9
35	7	10-00013-030-A	7000 Portage Rd.	Pharmacia & Upjohn Company	
35	4	10-00014-001-C	7171 Portage Rd.	Pharmacia & Upjohn Company	
35	5	10-00012-101-C	6700 S. Sprinkler Rd.	Mann & Hummel USA INC.	E9
35	6	10-00013-900-O	3601 E. Romence Rd.	Pennsylvania Lines LLC	
17	55	06-35-434-122	2224 Banbury Rd.	Casteel, Holly	
17	106	06-35-434-123	2220 Banbury Rd.	Wesley, Richard A.	
17	96	06-35-409-144	1916 Banbury Rd.	Hettinger, Vern & Lois	
17	97	06-35-431-136	2020 Banbury Rd.	Deyoung, Sean J. & Ashtynn A.	
17	98	06-35-434-121	2230 Banbury Rd.	Fannie Mae	
17	99	06-35-430-139	2006 Banbury Rd.	Kenworthy, Douglas	
17	100	06-35-408-150	1822 Banbury Rd.	Doorn, Daniel J.	
17	102	06-35-432-132	2110 Banbury Rd.	Pettit, Richard P. & Elaine C.	
17	103	06-35-433-127	2136 Banbury Rd.	Zabel, Jack B. & Glenda D.	
17	104	06-35-408-094	1835 Banbury Rd.	Bennett, Darren J. & Bailey M.	
17	105	06-35-430-140	1936 Banbury Rd.	Finedell, Richard A. Jr.	
17	101	06-35-406-086	1713 Banbury Rd.	Jzajac, Scott A. & Michelle R.	
17	107	06-35-407-153	1804 Banbury Rd.	Brattin, Randy Eugene	
17	108	06-35-408-093	1829 Banbury Rd.	Soper, Abram	
17	109	06-35-409-142	1924 Banbury Rd.	Nguyen, Hong	
17	110	06-35-433-113	2129 Banbury Rd.	Berkheiser, Kariann	
17	111	06-35-431-135	2026 Banbury Rd.	Sliva, Megan	
17	C	06-35-434-123	2220 Banbury Rd.	Devries, Jocelyn B. (Owner)	
17	63	06-35-452-001	1816 Bloomfield Ave.	Sunerville, Timothy	
17	64	06-35-453-376	1830 Bloomfield Ave.	Hackley, Lynel M.	
17	65	06-35-423-002	1827 Bloomfield Ave.	Roberts, Pamela	
17	68	06-35-453-375	1838 Bloomfield Ave.	VanAlphen, Annette	
17	69	06-35-423-334	1833 Bloomfield Ave.	Vinzant, Brian L.	
17	15	06-35-454-340	1922 Bloomfield Ave.	Bogren, Rebecca	E50
17	25	06-35-423-335	1903 Bloomfield Ave.	Triemstra, Joel E.	
17	18	06-35-475-410	2002 Bloomfield Ave.	DeWolff, Kenneth & Gail E.	
17	4	06-35-476-406	2028 Bloomfield Ave.	Adams, Bryan J.	E23
17	5	06-35-477-403	2108 Bloomfield Ave.	Bogema, David J. & Janet M., Trust	
17	22	06-35-448-401	2131 Bloomfield Ave.	Willard, Christopher	E29
17	38	06-35-448-400	2125 Bloomfield Ave.	Wykrentowicz, George & Emily	E30
17	37	06-35-448-399	2119 Bloomfield Ave.	Wright, Cheryl M. TTEE	E31
17	36	06-35-447-398	2113 Bloomfield Ave.	Duhrkoff, John K.	
17	34	06-35-447-397	2109 Bloomfield Ave.	Wirgau, Brock A.	
17	27	06-35-424-002	1915 Bloomfield Ave.	Parr, Philip E. & Debra G.	
17	28	06-35-424-003	1921 Bloomfield Ave.	Naou, Margaret Ibrahim	
17	29	06-35-445-001	1927 Bloomfield Ave.	Baden, Mary J. Van Dyke	
17	30	06-35-445-389	1935 Bloomfield Ave.	Perkins, Daryl G.	
17	20	06-35-477-404	2036 Bloomfield Ave.	Wigren, Kevin & Barbara	
17	61	06-35-423-001	1821 Bloomfield Ave.	Triezenberg, Ronald L.	
17	70	06-35-422-001	1815 Bloomfield Ave.	Minard, Katherine	
17	71	06-35-454-373	1908 Bloomfield Ave.	Green, Jill A.	
17	72	06-35-453-001	1824 Bloomfield Ave.	Bolhuis, Robert	
17	73	06-35-422-329	1809 Bloomfield Ave.	Styrd, Ronald P. & Sharon K. Trustees	
17	6	06-35-446-297	2014 Dorchester Ave.	Sherrrod, Michael & Laura L.	
17	41	06-35-449-286	2204 Dorchester Ave.	Buyce, Cody	
17	23	06-35-449-282	2226 Dorchester Ave.	Clements, Kristin M.	
17	47	06-35-440-263	2007 Dorchester Ave.	Sherrpod, Michael & Laura	
17	24	06-36-320-001	2300 Dorchester Ave.	City of Kalamazoo Public Services	
17	39	06-35-448-290	2120 Dorchester Ave.	Toohey, Lucille L.	
17	35	06-35-447-292	2110 Dorchester Ave.	McMurtrie, Megan J.	E47
17	26	06-35-424-304	1914 Dorchester Ave.	Chicks Homes, LLC	
17	43	06-35-443-001	2207 Dorchester Ave.	Krohn, Deborah	
17	45	06-35-442-001	2117 Dorchester Ave.	Wagers, Ashley	
17	44	06-35-442-002	2111 Dorchester Ave.	Guffey, John	
17	49	06-35-440-261	1935 Dorchester Ave.	Hess, Todd & Tonya	
17	50	06-35-419-259	1925 Dorchester Ave.	Wydick, Sarah	
17	42	06-35-449-284	2214 Dorchester Ave.	Johnson, Roger D. & Linda M.	
17	40	06-35-448-287	2136 Dorchester Ave.	Stenger, Randall G.	E10
17	82	06-35-444-280	2229 Dorchester Ave.	Simoni, Jennifer A.	
17	81	06-35-418-255	1901 Dorchester Ave.	Ryan, Edward	
17	83	06-35-443-005	2125 Dorchester Ave.	McNee, Marilyn	
17	84	06-35-444-002	2217 Dorchester Ave.	Bond, Matthew	
17	85	06-35-444-003	2211 Dorchester Ave.	Hartman, Brian L. & Lisa	
17	77	06-35-422-310	1818 Dorchester Ave.	Bisnett, Kenneth	
17	78	06-35-423-307	1834 Dorchester Ave.	Boehm, Russel - Jennine Tees	
17	79	06-35-417-248	1803 Dorchester Ave.	Simpson, Nicole W. & Robert Jordan	
17	80	06-35-424-30	1922 Dorchester Ave.	Flora, Wendy Ann	
17	86	06-35-423-309	1826 Dorchester Ave.	Budden, Christopher	
17	E	06-35-424-303	1922 Dorchester Rd.	Flora, Wendy Ann	
17	3	06-35-476-407	4245 Mayfair St.	Fulton, Ajeet & Alexander	
17	16	06-35-475-413	4250 Mayfair St.	Matthews, Laura M.	E51
17	19	06-35-476-408	4237 Mayfair St.	Haase, Kelly	
17	17	06-35-475-411	4238 Mayfair St.	Dunham, Dirk R. Sr. & Penny L.	

Runway Approach	Parcel #	Tax ID #	Property Address	Owner's Name (based on 2020 Kalamazoo Co. GIS)	Existing Easement
17	46	06-35-442-213	2104 Golfview Ave.	Parker, Daimen	
17	48	06-35-440-003	1938 Golfview Ave.	Snyder, Maureen E.	
17	51	06-35-413-174	1837 Golfview Ave.	Everage, Jay III	
17	52	06-35-414-177	1913 Golfview Ave.	Poolman, Udema L.	
17	53	06-35-436-184	2013 Golfview Ave.	Randall, Nicole	
17	88	06-35-413-171	1821 Golfview Ave.	Barnes, June Trust	
17	94	06-35-414-179	1925 Golfview Ave.	Risken, Susan M.	
17	89	06-35-440-001	2006 Golfview Ave.	Mell, Thomas H. & Stephen K.	
17	90	06-35-419-223	1922 Golfview Ave.	Taft, Beverly	
17	91	06-35-444-202	2226 Golfview Ave.	Reichenbach, Jeffrey R. & Laurie	
17	92	06-35-413-173	1827 Golfview Ave.	Denoooyer, Jacob J.	
17	93	06-35-443-206	2206 Golfview Ave.	Green, Perter A. Jr.	
17	95	06-35-411-166	1713 Golfview Ave.	Thompson, Gary K. Karen	
17	A	06-35-414-176	1907 Golfview Ave.	Bolton, Katherine G.	
17	B	06-35-436-186	2025 Golfview Ave.	Keyser, Aaron S. (Owner)	
17	D	06-35-442-212	2110 Golfview Ave.	Zerbel, Joshua A-Cheryl.	
17	2	06-35-487-001	2101 E. Kilgore Rd.	County of Kalamazoo	
17	11	06-35-491-001	2001 E. Kilgore Rd.	State of Michigan MDOT	
17	8	06-35-494-001	2211 E. Kilgore Rd.	Atlas Trucking INC	
17	10	06-36-350-001	2301 E. Kilgore Rd.	City of Kalamazoo Public Services	E4
17	9	06-36-362-001	2605 E. Kilgore Rd.	Zoetis LLC	E4
17	7	06-35-469-001	1919 Kilgore Service Road.	Kilgore Point LLC	E21
17	87	10-02-209-001	1920 Kilgore Service Rd.	Red Arrow Post #1527	E13
17	33	06-35-447-293	4203 Konkle St.	Smith, Burdette	
17	31	06-35-446-395	4220 Konkle St.	Richards, Rosalene	E48
17	54	06-35-432-133	4027 Konkle St.	Coats, Jeremy & Taryn	
17	32	06-35-447-396	4219 Konkle St.	Hickman, Edward Scott	
17	56	06-35-297-257	2110 Lakeway Ave.	Fillar, Jordan	
17	128	06-35-293-240	2203 Lakeway Ave.	Moss, Portia	
17	129	06-35-297-256	2116 Lakeway Ave.	Purk, Nelda	
17	130	06-35-293-241	2207 Lakeway Ave.	Cross, Thomas	
17	120	06-35-294-242	2213 Lakeway Ave.	Resh, Mary Jane	
17	121	06-35-293-238	2135 Lakeway Ave.	Buskirk, David R. & Toni L.	
17	122	06-35-293-239	2141 Lakeway Ave.	Johnston, Carey	
17	123	06-35-296-259	2034 Lakeway Ave.	Benny, Michael & Margaret A.	
17	124	06-35-274-269	1914 Lakeway Ave.	Cottrell, Nate W.	
17	125	06-35-295-267	1928 Lakeway Ave.	Kurtz, John	
17	126	06-35-297-255	2122 Lakeway Ave.	Henry, Brian D. III	
17	127	06-35-271-280	1714 Lakeway Ave.	Porter, Ashley	
17	131	06-35-299-247	2230 Lakeway Ave.	Gardiner, David D. & Rosemary	
17	132	06-35-272-276	1816 Lakeway Ave.	Bailey, Bretten	
17	3	06-35-476-407	4245 Mayfair St.	Fulton, Ajeet & Alexander	
17	16	06-35-475-413	4250 Mayfair St.	Matthews, Laura M.	E51
17	19	06-35-476-408	4237 Mayfair St.	Haase, Kelly	
17	17	06-35-475-411	4238 Mayfair St.	Dunham, Dirk R. Sr. & Penny L.	
17	133	06-35-271-002	3920 Moreland St.	Nabors, Leah J.	
17	112	06-35-417-233	4115 Moreland St.	Weeber, Gerald K.	
17	59	06-35-458-002	1834 Nottingham Ave.	Process, Bradley & Theresa	
17	62	06-35-458-350	1828 Nottingham Ave.	Quintana, Juventino	
17	66	06-35-453-370	1901 Nottingham Ave.	Deloach, Erica	
17	67	06-35-453-371	1903 Nottingham Ave.	Kik, Daniel W. & Andera B.	
17	74	06-35-458-001	1838 Nottingham Ave.	Denaway, Richard	
17	75	06-35-459-346	1912 Nottingham Ave.	Gearhart, Scott T.	
17	76	06-35-453-002	1815 Nottingham Ave.	Ginther, Jack L. & Anna L.	
17	119	06-35-429-039	2225 Paddington Rd.	Rice, John J.	
17	114	06-35-425-058	2010 Paddington Rd.	Corning, Michael J. & Cherri O.	
17	116	06-35-426-002	2018 Paddington Rd.	Baldrige, Benjamin & Sarah	
17	117	06-35-429-044	2214 Paddington Rd.	Ahle, Emily E.	
17	118	06-35-426-027	2031 Paddington Rd.	Cheatham, Jr. & Dorchester	
17	115	06-35-401-001	1706 Paddington Rd.	Hamilton, Eric L.	
17	60	06-36-315-001	4131 Pennway St.	City of Kalamazoo Public Services	
17	14	06-35-454-001	4241 Sommerset Dr.	Fannie Mae	E50
17	12	06-35-459-001	4311 Sommerset Dr.	Mansfield, Karie	
17	13	06-35-454-343	4305 Sommerset Dr.	Peters, Russell L.	E52
17	113	06-35-454-372	4304 Sommerset Dr.	Schnake, Sharon E.	

Milwood Neighborhood Potential Tree Removals

Intersection of Bloomfield Ave and Somerset Ave
Looking Northeast



Existing



AFTER
(with replacement plantings)

Milwood Neighborhood Potential Tree Removals

Intersection of Dorchester Ave and Moreland St
Looking East



Existing



AFTER
(with replacement plantings)