



ALTERNATIVE SCENARIOS



This document identifies the alternative scenarios for the Metropolitan Transportation Plan (MTP) 2035. It shows how the alternative scenarios differ from the initial scenario, identifies the purpose of the scenario, and shows how the changes fiscally impact the MTP 2035.

Alternative Scenario 1 – Fix the Problems

The purpose of the Fix the Problems scenario is to fix the transportation system problems that still existed in the Initial Scenario.

Projects Added:

Woodlawn and K-96 Interchange – additional left turn lane in all directions

Rock and K-96 Interchange – additional left turn lane in all directions

Webb and K-96 Interchange – additional left turn lane in all directions

71st Street South: Bridge over Arkansas River

Total Cost Added: \$121,870,000

Projects Removed:

366 K-254: K-96 to US-54

Total Cost Removed: \$300,000,000

Cost of Scenario vs. Available Funding

\$3,406,326,643 total cost

\$3,200,000,000 available funding

\$176,326,643 over budget

Alternative Scenario 2 – Transit/Operations and Maintenance

The purpose of the Transit/Operations and Maintenance Scenario is to include all the operations and maintenance projects and free transit.

Projects Removed: The following projects were removed because the Travel Demand Model (TDM) showed these roadways to have a volume to capacity ratio of less than 0.15 in 2035.

53 Kellogg: 143rd St. W. to 111th St. W.

366 K-254: K-96 to US-54

50 K-96 and Greenwich

219 Meridian Ave.: 79th St. S. to 71st St. S.

287 Madison Ave.: High Park to Derby High School

246 83rd St. S.: Arkansas River to Hillside

17 Mulvane Bypass: K-15 to K-53

247 Rock Rd.: Chet Smith Ave. to 95th St. S.

258 13th St. N.: Hillside to Oliver

77 21st St. N.: Andover Rd. E. to KTA

137 Andover Rd.: SW 110th St. to SW 120th St.

51 K-96 and Hoover

221 53rd St. N.: Hydraulic to .5 Mile E. of Hydraulic
375 K-254 and Greenwich
374 K-254 and Webb
194 US-54: 159th St. E. to .5 Mile E. of Prairie Creek
200 Meridian: 79th St. S. to 95th St. S.
85 95th St. S.: Hillside to Broadway (SAPS Phase 2)
145 95th St. S.: Meridian to Broadway (SAPS Phase 4)
114 21st St. N.: I-135 to Broadway
261 Maize: 13th St. N. to 21st St. N.
370 US-54: US-254 and K-163
135 Andover Rd.: SW 130th St to .5 Mile S.
136 Andover Rd.: SW 120th St. to SW 130th St.
248 55th St. S.: K-15 to Rock Rd.
55 119th St. W.: Pawnee to Kellogg
303 Kellogg: 159th St. E. to 127th St. E.
218 Kellogg: 143rd St. W. to .5 Mile W. of 151st St.
195 119th St. W.: US-54 to K-42 (SAPS Phase 8)
196 119th St. W.: K-42 to 71st St. S. (SAPS Phase 9)
197 119th St. W.: 71st S. to 95th St. S. (SAPS Phase 10)
198 95th St. S.: Ridge Rd. to Meridian (SAPS Phase 11)
199 95th St. S.: 119th St. W. to Ridge Rd. (SAPS Phase 12)
373 US-400: 1/2 mile W. of Meadowlark to Meadowlark
378 Kellogg: .5 Mile W. of 151st St. W. to NW Bypass
205 I-235: Floodway Crossing Bridge between Central and Zoo Blvd.
160 Broadway: Bridge at 34th St. S.
83 95th St. S.: K-15 to Hillside (SAPS Phase 1)
161 Broadway: Bridge at Big Slough
329 5th St.: Bridge over Floodway
144 159th St. E.: Bridge over KTA
170 21st St. N.: Bridge at Derby Refinery
168 Southeast Blvd.: Bridge over Wichita Drainage Canal
333 Seneca St.: Bridge over Floodway
172 Amidon St.: Bridge over Arkansas River
169 2nd St. N.: Bridge over Brookside Ditch
173 Yale: Bridge at Sleepy Hollow
336 93rd St.: Bridge over Floodway

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- 337 93rd St.: Meridian to .25 Mile W. of Seneca
 - 163 Delano Area: Bridge over Westlink Ditch
 - 201 279th St. W.: Bridge over Big Arkansas River
 - 49 119th St. W.: 85th St. N. to 77th St. N.
 - 184 Broadway at 34th St. S. - Phase I (Split 2)
 - 240 151st St. W.: Bridge over Ninnescah River
 - 202 151st St. W.: Bridge over Big Arkansas River
 - 234 Ridge Rd.: Bridge over Big Arkansas
 - 203 215th St. W.: Bridge over Big Arkansas River

Total Cost Removed: \$1,671,424,022

Cost of Scenario vs. Available Funding

\$1,913,032,621 total cost

\$3,200,000,000 available funding

\$1,316,967,379 under budget

Alternative Scenario 3 – Mega Projects

The purpose of the Mega Projects Scenario is to focus on the large scale, or mega, projects.

Projects Removed:

- 17 Mulvane Bypass: K-15 to K-53
- 370 US-54: US-254 and K-163
- 196 119th St. W.: K-42 to 71st St. S. (SAPS Phase 9)
- 197 119th St. W.: 71st S. to 95th St. S. (SAPS Phase 10)
- 198 95th St. S.: Ridge Rd. to Meridian (SAPS Phase 11)
- 199 95th St. S.: 119th St. W. to Ridge Rd. (SAPS Phase 12)

Total Cost Removed: \$244,937,500

Cost of Scenario vs. Available Funding

\$3,339,519,143 total cost

\$3,200,000,000 available funding

\$109,519,143 over budget

For all scenarios including the Initial Scenario, tweaks were made to the transit system coded into the model to better reflect the intentions of the proposed future transit system.

Transit tweaks:

Additional park and ride locations

Missing routes not coded in the original model run

Added in the Assumption of ability to flag bus down to stop

Headways of 15 minutes during the peak periods and 30 minutes in off peak periods

