

2045

TRANSPORTATION
PLAN



Adopted July 2023

Illustrations of the transportation
network within the Metropolitan Planning Area.

Areas include portions of Allen, Whitley, and Huntington Counties,
the Cities of Fort Wayne and New Haven, and
the Towns of Grabill, Huntertown, and Leo-Cedarville.

**RESOLUTION
2045 TRANSPORTATION PLAN**

**A RESOLUTION OF THE NORTHEASTERN INDIANA REGIONAL COORDINATING COUNCIL,
CERTIFYING THAT THE 2045 TRANSPORTATION PLAN FOR THE FORT WAYNE-NEW HAVEN-
ALLEN COUNTY METROPOLITAN PLANNING AREA, ALLEN COUNTY, INDIANA CONFORMS TO
THE REQUIREMENTS SET FORTH IN THE 1990 CLEAN AIR ACT (CAAA)**

WHEREAS, The Northeastern Indiana Regional Coordinating Council is the designated Metropolitan Planning Organization for the Fort Wayne Urbanized Area.

WHEREAS, The U.S. Environmental Protection Agency (EPA) has issued guidance to assist in the implementation of the February 16, 2018, decision from the United States Court of Appeals for the District of Columbia Circuit in South Coast Air Quality Mgmt. District v. EPA (“South Coast II,” 882 F.3d 1138). The guidance addresses how transportation conformity determinations can be made in areas that were either non-attainment or maintenance for the 1997 Ozone NAAQS when the standard was revoked, depending on their designations for the subsequent 2008 and 2015 Ozone NAAQS. Allen County was defined as an orphan maintenance area in the court decision as the region was a maintenance area for the 1997 Ozone NAAQS at the time of its revocation (80 FR 12264, March 6, 2015) and was designated attainment for the 2008 Ozone NAAQS in EPA’s original designations for the NAAQS (77 FR 30160, May 21, 2012).

WHEREAS, The Northeastern Indiana Regional Coordinating Council is designated as the Lead Agency for air quality planning as it relates to transportation planning and mobile source emissions,

THEREFORE BE IT RESOLVED, that the Northeastern Indiana Regional Coordinating Council herewithin certifies that the 2045 Transportation Plan conforms to the broad intentions of achieving and maintaining the National Ambient Air Quality Standards (NAAQS).

That the 2045 Transportation Plan conformity determination is based upon the most recently available population, land-use, travel, employment, congestion, and economic activity estimates as determined by NIRCC.

That no project in the 2045 Transportation Plan as Amended will cause delay in the implementation of any required and identified TCMs.

That the 2045 Transportation Plan for the Fort Wayne-New Haven-Allen County Transportation Management Area contributes to the annual emission reductions consistent with sections 182(b) (1) and 187 (1) and 187 (a) (7) of the 1990 Clean Air Act.

That the MPO is aware of no goal, directive, recommendation, or project identified in the 2045 Transportation Plan which contradicts in a negative manner any specific requirements or commitments of the applicable state implementation plan (SIP) for the plan.

THEREFORE BE IT RESOLVED, that the Northeastern Indiana Regional Coordinating Council Urban Transportation Advisory Board on July 11, 2023, find the 2045 Transportation Plan as Amended to conform in all aspects to the requirements of the 1990 Clean Air Act Amendment.

RESOLVED THIS 11TH DAY OF JULY 2023.

THE NORTHEASTERN INDIANA REGIONAL COORDINATING COUNCIL

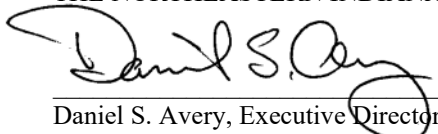

Daniel S. Avery, Executive Director

Table of Contents

Chapter 1 –Introduction _____	1
Historical Background	1
Transportation Planning Requirements	7
Performance Based Planning and Programming.....	22
Federal Transportation Performance Management.....	23
Highway Performance Measures.....	24
System Performance Measures.....	24
Infrastructure Performance Measures.....	25
Safety Performance Measures.....	25
Transit Performance Measures.....	25
Transit Asset Management Plan.....	25
System Management Report.....	26
Target Setting.....	26
Reporting.....	27
Regional Goal, Objectives, Actions and Measures	33
Study Process	47
Report Organization	48
Chapter 2 –Base and Planning Year Socioeconomic Data _____	51
Base Year 2020 Estimates	53
Population	54
Households	54
Vehicle Ownership	54
Employment	54
Planning Year 2045 Projections	57
Population	65
Households	67
Vehicle Ownership	68
Employment	68
Other Trends Affecting Travel.....	69
Summary	70
Chapter 3 –Travel Forecast: 2045 Travel Demands _____	73
Travel Forecasting Process	73
Travel Forecasting Procedure.....	76
Analysis of Regional Activity Forecasts	79
Trip Generation	81

Trip Distribution	81
Evaluation of the Transportation System	82
Existing Highway System.....	82
Transit System	86
Conclusion	89
Chapter 4 –Evaluation of Alternative Transportation Sketch Plans _____	93
Alternative Network Testing	93
Roadway Design Standards	94
Highway Alternatives	94
Transit Alternatives	99
Chapter 5 –Selection of the Recommended Plan _____	103
Documentation of Public Participation	103
Environmental Justice Outreach.....	104
Focused Outreach Efforts	106
Title VI. Environmental and Limited English Proficiency.....	106
Enviromental Justice	108
Public Involvement Strategies for Engaging Minority and Low-Income Populations.....	109
Measures for Evaluating Benefits and Burdens of Transportation Plans and Projects	118
Factors Influencing Plan Selection	122
Livable Communities	123
Financial Analysis	124
Other Planning Processes	125
Chapter 6 –The Selected Plan _____	127
Goal of the Transportation Plan	127
The Recommended Plan	133
Highway Improvements.....	133
New Construction	133
Widening Projects	133
Congestion Management Strategy Implementation	133
Other Highway Improvements	133
Highway Policies	138
Transit Improvements	139
Public Transit Policies	144
Public Transit Improvement Projects	145

Identified Transportation Strategies from Coordinated Transit Plan.....	146
Bicycle, Pedestrian, and Enhancement Improvements	147
Financial Plan	147
Transit.....	151
Federal Funding.....	151
State Funding	151
Local Funding	152
Transit Operating Costs	152
Summary of Transit Financial Plan	155
Other Transportation Modes	155
Bicycle and Pedestrian Plan	155
Design Classification for Routes	164
Transportation Alternatives(TA).....	174
Intelligent Transportation System (ITS)	176
ITS Completed and Planned Improvement Projects	176
Summary of Selected Plan	178
Chapter 7 –Safety Management in Transportation Planing_____	179
Introduction	179
Source of Data	179
Quality of Data	179
Analysis of Data	179
Uses of Data	181
Project Selection and Prioritization	182
Existing Project Analysis	183
Bicycle & Pedestrian Safety	184
Transit Safety	184
Conclusion	184
Chapter 8 –Environmental Mitigation _____	185
Methodology	185
Common Environmental Issues	185
Streams and Wetlands	186
Threatened and Endangered Species	196
Section 4(F) Mitigation	200
Cultural Resources	201
Other Environmentally Sensitive Sites	207
Transportation Plan Analysis Summary	212

Climate Change: Resilient and Sustainable Transportation.....	215
Extreme Events	215
List of Consulting Agencies	217
Input on the 2045 Transportation Plan by the Consulting Agencies	218
Chapter 9 –Freight _____	221
Freight Movement in Allen County	221
Rail	221
Air	225
Roadways	225
Chapter 10 –Future Efforts and Implementation _____	233
Status of Previous Transportation Plans	233
Current 2040 Transportation Plan	235
Future Efforts	238
Congestion Management System.....	238
Access Management	239
Alternative Travel Methods	239
Corridor, Site Impact, Intersection Analysis, and Feasibility Studies	239
Security	240
Passenger Rail	240
Gateway Plan- City of Fort Wayne	243
Implementation	245

Figures

Figure 1-1: Railroad System and Rivers in the Metropolitan Planning Area _____	4
Figure 1-2: Fort Wayne/New Haven/Allen County Metropolitan Planning Area _____	6
Figure 2-1: Traffic Analysis Zones _____	52
Figure 2-2: 2020 Population Density _____	55
Figure 2-3: 2020 Housing Density _____	56
Figure 2-4: 2019 Employment Density _____	58
Figure 2-5: Future Land Use _____	60
Figure 2-6: Floodplains _____	62
Figure 2-7: Residential Building Permits and Rezoning from 2016 to 2021 _____	63
Figure 2-8: Industrial Parks and Sites _____	64
Figure 2-9: Future Growth and Development _____	66
Figure 3-1: Incremental Forecasting Process _____	74
Figure 3-2: Travel Forecasting Procedure _____	75

Figure 3-3: Completed Projects from the current 2040 Plan _____	83
Figure 3-4: Existing Transit System _____	88
Figure 3-5: Transit System Accessibility _____	90
Figure 3-6: Network Deficiencies if no Projects were Completed _____	91
Figure 4-1: Network Deficiencies after 2045 Funded Projects _____	97
Figure 4-2: Network Deficiencies after 2045 Funded & Illustrative Projects _____	98
Figure 5-1: Census Tracts with Characteristics that Exceed Regional Averages _____	107
Figure 5-2: Population Age 65 and Over Profile _____	110
Figure 5-3: Minority Population Profile _____	111
Figure 5-4: Hispanic Population Profile _____	112
Figure 5-5: Low-Income Population Profile _____	113
Figure 5-6: Disabled Population Profile _____	114
Figure 5-7: Households without Access to a Vehicle Profile _____	115
Figure 5-8: Limited English Proficiency Population Profile _____	116
Figure 5-9: Transit Routes ½ Mile Buffer _____	117
Figure 5-10: Neighborhood Associations _____	119
Figure 5-11: Implementation of Transportation Plans (1971- Present) _____	121
Figure 6-1: Recommended 2045 Transportation Plan _____	128
Figure 6-2: 2045 Plan Illustrative and Unfunded Projects _____	129
Figure 6-3: Recommended 2045 Transit System _____	130
Figure 6-4: Recommended 2045 Bicycle and Trail Plan _____	131
Figure 6-5: Recommended 2045 Sidewalk Plan _____	132
Figure 6-6: Potential Future Transit Expansion Areas _____	142
Figure 6-7: Regional Bicycle and Pedestrian Plan for Northeast Indiana _____	158
Figure 6-8: Bike and Trail Plan _____	160
Figure 6-9: Trail Plan _____	161
Figure 6-10: Sidewalk Plan _____	162
Figure 8-1: Water Features _____	188
Figure 8-2: Potential Wetlands _____	189
Figure 8-3: Water Features and Impaired Streams _____	190
Figure 8-4: Watersheds _____	191
Figure 8-5: Flood Control Projects _____	192
Figure 8-6: Parks and Significant Protected Natural Areas _____	203
Figure 8-7: Historic Features _____	204
Figure 8-8: Kessler Plan – Park and Boulevard System _____	205
Figure 8-9: Cultural and Infrastructure Concerns _____	206
Figure 8-10: Cleanup Sites _____	208

Figure 8-11: Waste Sites _____	209
Figure 8-12: Environmentally Sensitive Sites and Infrastructure _____	210
Figure 8-13: Underground Storage Tanks _____	211
Figure 9-1: Transportation Infrastructure _____	222
Figure 9-2: Major Modal Activity Centers _____	223
Figure 9-3: Railroad Destinations _____	224
Figure 9-4: Regional Hub _____	226
Figure 9-5: Truck Route System _____	228
Figure 9-6: Truck Volumes _____	229
Figure 9-7: Big Data _____	231
Figure 10-1: Implementation of Transportation Plans (1971-Present) _____	234
Figure 10-2: Allen County NHS and Hospitals _____	241
Figure 10-3: Allen County NHS and Fire Stations _____	242
Figure 10-4: Gateway Plan Corridors and Interchanges _____	246

Tables

Table 1-1: Statewide Safety Performance Targets _____	27
Table 1-2: Statewide Bridge Performance Targets _____	28
Table 1-3: Statewide Pavement Performance Targets _____	28
Table 1-4: Statewide System and Freight Performance Targets _____	28
Table 1-5: Statewide CMAQ Emission Reduction Performance Targets _____	28
Table 1-6: CitiLink – Transit Rolling Stock Performance Targets _____	29
Table 1-7: CitiLink – Facilities Performance Targets _____	29
Table 1-8: CitiLink – Fixed Route Safety Performance Baseline and Targets _____	30
Table 1-9: CitiLink – Paratransit Safety Performance Baseline and Targets _____	30
Table 1-10: Indiana 2020 Safety Performance Target Assessment _____	31
Table 1-11: Indiana 2020 Mid Performance Period Significant Progress Determination Results For Pavement and Bridge Conditions _____	32
Table 1-12: Indiana 2020 Mid Performance Period Significant Progress Determination Results For Highway Reliability _____	32
Table 2-1: Metropolitan Planning Area Data _____	57
Table 2-2: 2015 and 2019 Mode of Travel to Work Data _____	69
Table 2-3: 2015-2022 Weekday Vehicle Miles of Travel _____	70
Table 2-4: 2015 -2019 Total Annual Transit Ridership _____	70
Table 2-5: Summary of Base Year and Horizon Year Socioeconomic Variables _____	71
Table 2-6: MPA 2020 Base Year Data by County _____	71
Table 2-7: MPA Projected 2045 Horizon Year Data by County _____	71
Table 3-1: Summary of Regional Socioeconomic Variables _____	79

Table 3-2: Travel Demand Forecast Regional Summary _____	81
Table 3-3: Lane Capacities _____	84
Table 3-4: ICAP – Initial Vehicles per Lane per Hour Assumption _____	85
Table 4-1: VMT and VHT Comparison _____	95
Table 4-2: VMT Per-Capita _____	96
Table 5-1: Urban Transportation Advisory Board Meetings _____	104
Table 5-2: Metropolitan Planning Area Census Tract Thresholds _____	105
Table 6-1 Local Revenues 2024-2045 _____	149
Table 6-2 Estimated Federal Revenues 2024-2045 _____	150
Table 6-3 Project Cost Estimates and Available Revenue Summary _____	150
Table 6-4 Project Cost Estimates and Available Revenue Summary(Local) _____	150
Table 6-5: CitiLink Operating Revenue - 2018 _____	153
Table 6-6: CitiLink Annual Capital Revenue Estimates _____	153
Table 6-7: CitiLink Annual Costs & Revenue Forecast _____	154
Table 6-8: CitiLink Operating Revenue & Expenditure Estimates _____	154
Table 6-9: CitiLink Capital Revenue & Expenditure Estimates _____	154
Table 6-10: Bicycle – Pedestrian Projects _____	167
Table 8-1: 2022 Impaired Waters in Allen County (Cat 5) _____	193
Table 8-2: 2022 Impaired Waters in Allen County (Cat 4) _____	195
Table 8-3: Endangered, Threatened, or Rare Species within Allen County _____	197
Table 8-4: Summary of # of Projects within Environmental Points of Interest _____	213

Appendixes

Appendix A – Congestion Management Program	
Appendix B – 2020 Socioeconomic Data	
Appendix C – 2045 Socioeconomic Data	
Appendix D – Access Standards Manual 2021	
Appendix E – Roadway Design Standards	
Appendix F – Local Project Cost	
Appendix G – Transit Development Plan	
Appendix H – The Coordinating and Transportation Services Guide	
Appendix I – Coordinated Public Transit-Human Services Transportation Plan for Allen County	
Appendix J – Public Participation – Comments and Responses	
Appendix K – Pedestrian component of the Transportation Plan\Bicycle Parking Recommendation Policy	
Appendix L – Environmental Document Data Citations	
Appendix M – Air Quality Conformity Determination	